NIKHIL P

Java Full Stack Developer

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# PROFESSIONAL SUMMARY:

* **Full Stack Java Developer** with over **10+ years** of experience in the IT industry working with **object-oriented programming**, **design** and **development** of **Multi - Tier distributed**, Enterprise applications using **JAVA and J2EE** technologies with **Software Development Life Cycle (SDLC)** in **various Domains.**
* Experience in **spring framework,** extensively used **Spring DI, Spring AOP, Spring JDBC templates** and **Spring MVC.**

# Proficiency and experience with the language, showcasing your ability to develop robust and efficient applications using Java 17

* Hands-on experience with **Integrated Development Environments (IDE's)** tools like **Eclipse and NetBeans.**
* Experience in using **Hibernate,** extensively used **Entity Class Associations, Criteria Queries and Projections.**
* Experience on building **dynamic web applications** with **HTML5/HTML, CSS3/CSS, Bootstrap 3/4, JavaScript ES5/ES6, jQuery, Ajax, JSON.**
* Experience in using **Angular.JS** in Creation of **web pages** includes adding **objects, Manipulation** of the objects, **Adding** forms,

# Data Validations, Calling date and time functions, Calling Object oriented functions, and 2 way binding.

* Experience in **React.js**. Good technical skills in **React libraries,** including **react-bootstrap, react-router dom, redux, redux-thunk, axios.**
* Have replaced the Java Messaging Service (JMS) calls with **AWS SQS** and used **AWS SDK** to connect with **Amazon SQS** for bulk email processing.
* Expertise in implementing and managing the **ELK (Elasticsearch, Logstash, Kibana)** stack for real-time analytics, log analysis, and visualization to enhance application monitoring, performance tracking, and operational intelligence.
* Proficient in **designing** and **implementing Amazon Web Services (AWS) - AWS solutions** that leverage **various services** such as

# Amazon EC2, Amazon RDS, Amazon S3, RDS, ELB, IAM, and Amazon VPC to meet diverse business requirements.

* Experienced in **Node environment** using **Node.JS, NPM.**
* Experience in **java 11/8** features like **Parallel Streams, Lambdas, functional interfaces and filters.**

# Experience in implementing various design patterns including Data Access Object, Prototype, Factory, Abstract Factory, Builder, Observer, Builder, Data Transfer Object and Singleton.

* Experienced in **Jest, mocha/chai** and few other testing softwares.
* Skilled in leveraging **Adobe Experience Manager (AEM)** for digital asset management, enabling streamlined content workflow processes and personalized customer experience strategies across web and mobile platforms.
* Experienced in deploying and managing containerized applications using **AWS Elastic Kubernetes Service (EKS)**, demonstrating expertise in orchestrating, scaling, and maintaining Kubernetes clusters for robust and efficient cloud-native solutions.
* Experienced in using **Postman** for API testing and development, ensuring API functionality, reliability, and performance through comprehensive request composition and response analysis.
* Proficient with **SoapUI** for testing SOAP and RESTful web services, specializing in creating automated functional, regression, and load tests to validate service behavior and performance.
* Proficient in **Kotlin** for both Android app development and server-side applications, leveraging advanced features like coroutines, Kotlin DSL, and frameworks such as Ktor and Jetpack Compose, to deliver high-performance, maintainable, and user-centric solutions.
* Pioneered the integration of AI/ML technologies in various projects, utilizing frameworks like **TensorFlow** or **PyTorch** for data-driven insights and automation.
* Experience in deploying and managing applications using AWS services including **EC2, CloudFormation, VPC, EMR, S3, DynamoDB, Lambda, and API Gateway**, ensuring high availability, scalability, and security.
* Contributed to **UX design** processes, ensuring user-centric development and seamless integration of functional and aesthetic elements in applications.
* Directed project teams in **Agile environments** with an emphasis on **cybersecurity** and information assurance, ensuring secure and compliant software development practices.
* Developed and maintained **GitHub Actions** for continuous integration and delivery, ensuring seamless, automated workflows for build, test, and deployment processes.
* Designed and managed cloud infrastructure using **Terraform**, implementing IaC practices for scalable and maintainable cloud environments.
* Automated provisioning and management of **AWS resources, including EC2, S3, VPC, and RDS**, through Terraform scripts, enhancing operational efficiency and consistency.
* Skilled in leveraging **Mockito** for creating and managing mock objects in unit testing, facilitating the isolation of test cases from external dependencies for more accurate and reliable results.
* Specialized in leveraging **Apache Storm** for real-time data processing and analytics, enabling the efficient handling of large-scale, high-velocity data streams for improved decision-making and operational efficiency.
* Developed highly **scalable classifiers** and tools by **leveraging machine learning**, **Apache spark** & **deep learning.**
* Experience in **Core Java** concepts including **Multi-Threading, Exception Handling, Collection API, Object Oriented Programming (OOPs)** concepts like **Polymorphism, Inheritance, Abstraction, and Encapsulation…etc.**
* Experience in using **Amazon Web Services (AWS**). Extensive experience **focusing on services** like **EC2, VPC, Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, ElasticCache, SNS, SQS.**
* Experience with **Docker containers, leveraging Linux Containers** and **AMI's** to create **Docker Images/ containers.**
* Experience with **application servers** like **Web Logic, JBOSS, Apache Tomcat and IBM Web Sphere.**
* Experience in writing **EJB** Session and **Entity Bean classes.**
* Experience on **Log4j** to print the **logging, debugging, warning, info** on the **server console.**
* Experience working on **TDD** using **JUnit.**
* Experience with **CI/CD tools** and **creating pipelines** for **application deployment** using **Jenkins.**

# Experience in creating and consuming SOAP and RESTful web services in Spring Boot using JAX-WS, JAXRS, and Spring Rest Controller.

* Experience in deploying and managing **Apache Cassandra**, showcasing proficiency in achieving high scalability and reliability for distributed database systems, with a focus on real-time data processing and management.
* Experience in implementing **Redis** for high-performance data caching and session management, significantly enhancing application responsiveness and scalability through efficient in-memory data storage solutions.

# Experienced in spring modules like Spring Boot, Spring MVC, Spring AOP, Spring Batch in Spring Framework.

* Experience in **XML technologies** such as **XSL, XSLT, XML schemas, XPath, XForms, XSL-FO** and **parsers** like **SAX.**
* Experience in **Java messaging Service (JMS),** and **messaging technologies** such as **Message Driver Bean.**

# Experience with Relational databases like Oracle, My SQL, MS SQL Server, IBM DB2 and No SQL databases like Mongo DB and Dynamo DB.

* Experience in the **Agile (SCRUM) Development Process**
* Excellent **analytical, logical and programming** skills, **Self Motivated, Self-Starter**, and **Team Player** can work with **minimal**

supervision with **effective Communication** skills and Organizational skills combined with attention and **Time management** skills.

**Technical Skills:**

|  |  |
| --- | --- |
| Languages | Java 17/11/8/7, Python , PL/SQL, SQL |
| Java/J2EE Technologies | Core Java, JDBC, JMS, Java Beans, Java Multithreading, Generics and Collections, EJB, Tiles |
| Web Technologies | HTML, XML, XSLT, DHTML, DOM, JSON, CSS,, JavaScript, XPath, AJAX, Angular 6/4,  Angular.js, React.JS, REDUX, React, React Native, BootStrap, JQuery, Spring WebFlux |
| Methodologies | UML, Agile, Waterfall |
| Web Frameworks | Spring (IOC, MVC, Boot), Apache Tomcat, Apache Kafka, JBoss, Hibernate, Content Management Systems (CMS) - Adobe Experience Manager (AEM) |
| Design & GUI Tools | Eclipse, IBM RAD |
| App servers | IBM Web Sphere, Apache Tomcat, BEA Web Logic |
| Databases/Tools | Oracle 11g/10g/9i, SQL Server, MySQL,Cassandra, Redis, Apache Storm, GraphQL, PostgreSQL |
| Operating Systems | Windows, Linux, UNIX |
| Cloud Services | MS Azure, Amazon Web Services (AWS) |
| Cloud Technologies | Amazon WebServices (Amazon EC2, S3, SQS, EBS, CloudFront, EKS), Docker |
| MS Azure | ARM, Azure App Service, Azure Functions, Azure API Management, Azure Logic Apps, Azure Storage, |
| Development Tools | Eclipse, NetBeans, IntelliJ IDEA, RAD |

**Professional Experience:**

**Verizon, Irving, TX July 2023 – Till Date**

**Sr. Java Full Stack Developer**

Worked on customer relationship management (CRM) application module, CRM plays a crucial role in the telecommunications industry by helping companies manage interactions with their customers. The main goal of the project involves strategies, processes, and technology to analyze customer data and improve customer relationships. This application module involves Customer Data Management, Customer Segmentation, Service Improvement, Sales and Marketing, Customer Support, Cross-Selling and Up-selling, Workflow Automation and Feedback Management. It is a multifaceted approach that aims to enhance customer experiences, streamline operations, and drive business growth by leveraging customer data effectively.

# Responsibilities:

* Involved in various phases of **Software Development Life Cycle (SDLC)** of the application like **Requirement gathering, Design, Analysis** and **Code development.**
* Designed and **implemented responsive web applications** using **Java 17**, ensuring cross-browser compatibility and **responsive design.**
* Created AWS Security Groups for deploying and configuring AWS EC2 instances .
* Leveraged **Adobe Experience Manager (AEM**) to develop and manage Verizon's digital experiences across its main website and mobile applications, enhancing content coherence and customer engagement.
* Developed and supported internal web applications using Java Web APIs in the modern **Spring stack, integrating Spring MVC**, **Spring Boot, and JPA** to enhance application functionality and user experience.
* Designed the **N-Tier architecture** for the application following **Spring MVC pattern.**
* Worked on **Spring Frameworks Spring IOC, Spring Boot, Spring Cloud)** and using third **party libraries.**
* Designed and developed **Micro Services** business components using **Spring Boot.**
* Developed **Spring Boot** applications that can **extract data** from **CSV** and **PSV files** using **Java 11** Files that **read file into** stream of lines.
* Developed and maintained **REST APIs** using Spring Boot, improving data retrieval efficiency by 30%.
* Designed and implemented **GraphQL** APIs to streamline data retrieval and reduce the number of network requests, leading to improved application performance.
* Developed data processing pipelines using **Python** and **PySpark** to handle large-scale customer data, enabling efficient analysis and improved decision-making within the CRM application module.
* Integrated **PySpark** with existing ETL workflows to enhance data transformation and loading processes, reducing processing times by 20%.
* Implemented machine learning models using **PySpark** for predictive analytics, significantly improving customer segmentation and targeting strategies.
* Leveraged **Python** for scripting and automating tasks within the CRM module, enhancing operational efficiency and reducing manual intervention
* Integrated GraphQL with existing RESTful services, enabling more efficient data fetching and reducing latency by 25%.
* Developed and optimized complex **GraphQL** queries and mutations, ensuring efficient data access and minimizing over-fetching of data.
* Implemented security best practices in **GraphQL** APIs, including query complexity analysis and rate limiting to prevent denial-of-service attacks.
* Leveraged **Node.js** for backend services, enhancing the performance and scalability of the CRM application.
* Utilized **JavaFX** for building interactive desktop applications as part of the project module.
* Integrated **Hibernate** for seamless database interactions, ensuring data consistency and reducing load times.
* Developed the **Persistence layer** using **Hibernate Framework,** created the **POJO objects** and mapped using **Hibernate annotations** and **Transaction Management.**
* Developed and **debugged** the **application** using **Eclipse IDE.**
* Used several **J2EE Design Patterns Session Facade, Aggregate Entity** for the **Middle Tier development**
* Used **HTML5 and CSS3** for **website development** and build on **Bootstrap 3.0**.**Data binding** using **React.JS.**
* Used **React.JS** to **create views** to **hook up models** to the **DOM** and **synchronize data** with server as a **Single Page Application (SPA).**
* Created **AWS Security Groups** for deploying and configuring AWS EC2 instances.
* Integrated **AI/ML algorithms** for enhanced customer data analysis and segmentation in the CRM module, significantly improving predictive analytics and personalized customer interaction
* Designed and implemented **Kibana** dashboards to visualize complex datasets, enabling the team to track, analyze, and report on customer interactions and system performance metrics effectively. This resulted in a 20% improvement in customer engagement tracking and operational efficiency.
* Generated Java APIs for retrieval and analysis on No-SQL database such as HBase and **Cassandra** and Worked with NoSQL databases like Cassandra and **MongoDB** for POC purpose.
* Developed **predictive models** on **large-scale datasets** to address **various business** problems through leveraging **advanced statistical modeling**, **machine learning,** and **deep learning.**
* Worked with Advanced **Java 11** features like **Lambda** for adding **functionality processing capability** and **Stream API** to **facilitate pipeline processing** and method to **eliminate elements based** on the **criteria**
* Developed **web applications** using latest **JavaScript** features and **frameworks** such as **React** and **Redux** to **build dynamic web pages.**
* Used custom **Node.JS Proxy** to **simulate API** responses before **client implementation** was complete, and to **Proxy** requests to finish **client APIs**, handling **authentication, custom headers, virtual** application **root, etc**.
* Used **Java Messaging Services (JMS)** for reliable and **asynchronous exchange** of important information such as payment **status report.**
* Experience in developing and deploying **a Microservice application** utilizing almost all of the **AWS Stack including S3, EC2, DynamoDB, Kinesis, SNS and SQS** .
* Developed **XML** applications using **XSLT** transformations. Created **XML** document using **STAX XML API** to pass the **XML**

structure to **Web Services.**

* Involved in using **Amazon Web Services (AWS)** like **RDS, EC2, IAM, Cloud Watch and S3. Utilized AWS Lambda platform** to

**upload data** into **AWS S3 buckets** and to **trigger** another **Lambda functions.**

* Deployed the **Docker image** of **services building Docker** files and built a **continuous delivery pipeline** for **containers using AWS Code** and **Amazon ECS.**
* Designed and **developed business components** using **EJB’s.**
* Monitored the **transition** and recorded the **corresponding result** and **information** into the **log file cooperated** by **log4j.**
* Involved in creating **JUnit** test **case design logic** and **implementation throughout application.**
* Setup the **continuous Integration (CI)** and **continuous Deployment (CD)** process for the **application** using Jenkins**.**
* Integrated **Apache Storm** into the customer relationship management (CRM) module, enhancing real-time data processing capabilities for customer segmentation and behavior analysis, significantly improving response times and customer service efficiency.
* Involved in developing **RESTful Web services**, **SOAP** and **APIs** with **JSON and XML.**
* Used **MongoDB** as **central repository** to **store data** using **Spring Mongo Template** class and **Mongo Repository Interface.**
* Developed **Complex database** objects like **Stored Procedures, Functions** and **Triggers** using **SQL and PL/SQL.**
* Worked in **Agile** methodology and involved in **scrum** meetings every day to discuss the **Sprint status, technical difficulties** and

# blockers.

**Environment:** Java 17/11, spring, Spring Boot, MVC, Micro Services, Hibernate, Eclipse, HTML5, CSS3, JavaScript, React.JS, REDUX, React Native, Node.JS, JMS, XML, AWS, Docker, EJB, Log4j, JUnit, Jenkins, SOAP, RESTFul, JSON, MongoDB, SQL, PL/SQL, Agile and Windows.

# 7-Eleven, Irving, TX October 2022 – June 2023

**Sr. Java Full Stack Developer**

I was working on this Project for Inventory management to track stock levels, point of sale (POS) for processing sales transactions, customer management for maintaining customer database, reporting and analytics for monitoring sales performance, and staff management for employee scheduling and payroll management.

# Responsibilities:

* Involved in all the phases of **software development lifecycle (SDLC)** including **Requirements Collection**, **Design & Analysis** of the **Custome**r **Specifications, Development, Deployment** and Customization of the application.
* Used advanced **Java 8** features like **Lambda Expressions Streams, Filters**. **Enhanced concurrency methods** etc.
* Used **Java 1.8** features **like Java Stream API, Lambda expressions** with **references, Collections, Concurrency API, etc** to enhance the code quality and readability.
* Used **spring framework** to follow **MVC Architecture** in the **application server.**
* Developed **micro services** using **Spring Boot.**
* Used **Micro service architecture** with **Spring Boot** based **services interacting** through a **combination** of **REST** and **Apache Kafka**

message **brokers.**

* Developed API for using **AWS Lambda** to manage the servers and run the code in the DB.
* Leveraged **GraphQL** to create a unified API layer, simplifying data access across multiple microservices and improving developer productivity.
* Used **GraphQL** to support real-time data updates in the Inventory Management System, enhancing the responsiveness of the application.
* Designed and implemented real-time data streaming solutions using **PySpark**, ensuring efficient and reliable processing of inventory and sales data.
* Developed batch processing jobs using **Python** and **PySpark** for data aggregation and reporting, improving the accuracy of inventory management insights.
* Utilized **Python** for building custom data analysis tools to monitor and optimize stock levels, enhancing the effectiveness of inventory management.
* Collaborated with frontend teams to define GraphQL schemas that align with UI requirements, resulting in more predictable and maintainable code.
* Migrated key data access layers from REST to **GraphQL**, reducing API response times and improving the overall user experience.
* Designed and implemented **REST APIs** for the Inventory Management System, resulting in faster data processing and retrieval.
* Utilized **Spring and Hibernate** for developing the backend components, ensuring high performance and scalability.
* Worked with **Electron** to develop cross-platform desktop applications, enabling better user accessibility.

# Designed and implemented real-time data streaming solutions using Apache Kafka, ensuring efficient and reliable message processing.

* Configured and optimized **Kafka clusters** for **high throughput, fault tolerance,** and **low-latency data streaming.**
* Involved in developing functions for Amazon Lambda to manage some of the **AWS services**.
* Developed **interactive** and **responsive user interfaces** using **React**, creating seamless and intuitive user experiences.
* Implemented reusable **React** components to **modularize** the **frontend codebase, promoting code maintainability** and **scalability.**
* Developed highly **scalable classifiers** and tools by **leveraging machine learning, Apache spark & deep**
* Conducted **DevOps** and **CI/CD pipeline development** using **AWS CodePipeline, AWS CodeCommit,** and **AWS CodeBuild.**
* Developed **Hibernate mapping** files using different **mapping strategies** such as table per class **hierarchy** and also used Hibernate

**Persistence Strategy** to interact with **database.**

* Worked with **Hibernate** for **developing Persistence classes** to interact with the **database.**
* Used **Eclipse** as the **IDE** and **Web Logic** as the **application server.**
* Designed, developed, and tested **HTML5, CSS3, Bootstrap, JavaScript, jQuery** and **React.JS** that meets accessibility and web browser standards for **website.**
* **AWS Lambda** was utilized for serverless implementations, where the functions were triggered when the database tables were updated and **AWS Cloud Watch** was utilized for alarms.
* Experience in Data migration from DB2 to Apache **Cassandra** DB and involved in major and minor upgradation of Couch base and Cassandra cluster.
* Used **React.JS** to **create views** to hook up models to the **DOM** and **synchronize data** with **server** as a **Single Page Application (SPA).**
* Develop **various screens** for the front end using **React JS** and used **various predefined components** from **NPM (Node Package Manager)** and **Redux library.**
* Used **Node.JS** for **building web applications** with **client-server architecture** where both can initiate **communication** in two-way connections and allows them to **exchange the data.**
* **JMS** was used to **send/receive asynchronous data** from **various modules** in the application.
* Developed **XML** applications using **XSLT transformations**. Created **XML document** using **STAX XML API** to pass the **XML structure** to Web Services.

# Involved in using AWS (Amazon Web Services) services like EC2, VPC, Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, Elastic Cache, SNS, and SQS.

* Worked on Proof of Concept phase for cloud migration including build & deployment to AWS components like EC2 and setting up

**AWS S3** storage Objects.

* Worked on **Docker container snapshots,** attaching to the **running container, removing images, managing containers.**

# Designed, developed, and deployed EJB components (Session and Message Driven) beans.

* Implemented **Log4J** for **Logging Errors, debugging** and tracking using **loggers,** and components.
* Performed unit testing using **JUnit** and **participated** in **integration testing.**
* Worked on **Jenkins** for the **Continuous Integration** and **Continuous Deployment.**
* Consumed **SOAP and REST Web Services** to **retrieve** the information from the **back end.**
* Used **MongoDB** as a **NoSQL** for storing **JSON data.**
* Involved in writing complex **SQL queries** and **developed Stored Procedures** to populate the **database.**
* Followed **agile** methodology and **prepared technical** reports & documentation manuals during the program development.
* Involved in Unit integration, bug fixing, acceptance testing with test cases, Code reviews.

**Environment:** Java 8, spring, MVC, Micro Services, Spring Boot, Hibernate, Eclipse, HTML5, CSS3, JavaScript, React.JS, REDUX, React Native, Node.JS, JMS, XML, AWS, Docker, EJB, Log4j, JUnit, Jenkins, SOAP, REST, MongoDB, SQL, Agile and Windows.

# Express Scripts, St Louis, MO March 2021 – September 2022

**Java Full Stack Developer**

**Description:** The project involved in developing Intranet Web Application using J2EE architecture, using JSP to design the user interfaces and Hibernate for database connectivity. This project is for patient management for storing patient information, appointment scheduling for managing appointments, electronic medical records (EMR) for recording and accessing patient medical history, billing and payment processing.

# Responsibilities:

* Involved in the **Software Development Life Cycle (SDLC):** Requirements **gathering, Design, Code, Integrate**, and Deployment and **production phases.**
* Used **spring framework** for integrating the **MVC** components with **business services.**
* Implemented the application using **Spring Framework** to write and consume **Restful** services.
* Integrated **AWS services (ECR, ECS, S3, ALB**) in web application development, enhancing the scalability and performance of patient management systems.
* Employed **GitHub and GitFlow** Pull Request model for version control and code collaboration, ensuring high-quality code delivery and streamlined team workflows.
* Used **Spring Boot micro service** for the **creating application.**
* Designed and developed the **REST** based **Micro services** using the **Spring Boot.**
* Used **Spring Boot** created **REST APIs** per the application business to perform search using **elastic Java SDK.**
* Used **Spring Boot task scheduler** to **load files based** on **specific time interval** to read the **data.**
* Developed the **persistence layer** using **Hibernate Framework, created** the **POJO** objects and mapped using **Hibernate**

annotations.

* Developed and optimized data pipelines using **Python** and **PySpark** for processing patient management data, enabling real-time analytics and improving patient care outcomes.
* Implemented data transformation logic using **PySpark** within the ETL processes, reducing data processing times and increasing overall system performance.
* Automated data validation and cleanup processes using **Python**, improving the integrity and reliability of the patient management system.
* Conducted **performance tuning** and **monitoring** of **Kafka infrastructure, optimizing resource** utilization and ensuring scalability.

# Used Core Java 8 and Multithreading/ Concurrency in Java.

* Collaborated with **cross-functional teams** to **troubleshoot** and **resolve issues related** to **data consistency** and event **sequencing.**
* Used **Eclipse** tool for **application development.**
* Utilized **React** Router for **client-side navigation, enhancing** the overall user **navigation experience.**
* Implemented **data fetching** and **asynchronous operations** using **React Hooks** and lifecycle methods.
* Involved designing in **web pages** using **HTML 5, CSS3, JQuery,JavaScript, Bootstrap, React.js, Redux.**
* Created more **responsive Webpages**, which can be compatible with all the browsers and compatible with the different devices using

# React.JS.

* Developed with **Redux** to control the **data** in the **React project.**
* Involved in developing **restful APIs** using **Node.js frameworks.**
* Used **JMS** Template to **publish messages** to **queues** and **Message Driven Bean (MDB)** to **subscribe** from the **JMS.**
* Used **XML** to **transfer** the application **data between client** and server.
* Utilized **AWS Cloud platform** and its features which include **EBS, EC2, SNS, RDS, Cloud Watch, Cloud Trail, EMR, Lambda, Cloud Formation, Auto scaling, Cloud Front, S3 and Route 53.**
* Used **Docker** for **creating Docker images** for **launching containers** on **AWS EC2.**
* Developed the application using **Java Beans** and **EJB’s**.
* Optimized database performance and managed complex SQL queries, stored procedures, and database transactions in Oracle and

**PostgreSQL** environments.

* Crafted responsive web designs using **Bootstrap 4**, ensuring compatibility across various devices and screen sizes.
* Integrated advanced **Bootstrap** features to enhance user experience and interface responsiveness.
* Implemented **Log4J** for **Logging Errors, debugging** and **trackin**g using **loggers, appenders.**
* Developed **JUnit** test cases for testing the **business services** and carried **out bug fixing** by rigorous testing using **JUnit.**
* Setup the **continuous Integration (CI) process** for the application using the **Jenkins.**
* Developed services that are **reusable** and **interoperable,** using **SOAP, WSDL, JAXWS, JAXRPC Web services.**

# Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.

* Database development **required creation** of new tables **PL/SQL stored procedures**, **functions**, **views**, **indexes** and **constraints, triggers** and required **SQL** tuning to reduce the response time in the application.
* Involved in **daily scrum meetings**, worked on the **sprint tasks** in the **Agile Scrum** development.

**Environment:** Java 8, spring, Spring Boot, MVC, Micro Services, Eclipse, Hibernate, HTML5, CSS3, JavaScript, React.JS, REDUX, React Native, Node.JS, JMS, XML, AWS, Docker, EJB, Log4j, JUnit, Jenkins, SOAP, REST, MongoDB, SQL, Agile and Windows.

# State Street, Clifton, NJ Feb 2020 – Feb 2021

**Java Full Stack Developer**

**Description**: The aim of the project is to design and develop enterprise solutions and legacy integration application focusing on new service interfaces, batch processing, Product & Pricing web interface, Restful Service APIs, and SOA Webservices.

# Responsibilities:

* Involved in the requirements **analysis, designing, development**, **testing** and deployment of the enhancements.
* Developed application using **Java/J2EE platform. Implemented** the **Model View Control (MVC) structure.**
* Developed Enterprise application using **Spring MVC** to maintain loose coupling **between layers.**

# Worked on spring modules like Dependency Injection, Aspect Oriented Programming and Spring Mail, Spring JMS and Spring Security.

* Designed and developed **Micro services** using **Spring Boot.**
* Used **Hibernate framework** in **persistence layer** for mapping an object-oriented domain model to a **relational database.**
* Involved in Writing **JPA/Hibernate** queries.
* Developed and managed large-scale data processing tasks using **Python** and **PySpark** for financial data analysis, enhancing the accuracy and efficiency of investment portfolio management.
* Integrated **PySpark** into the data workflow to handle real-time data ingestion and processing, enabling timely and informed investment decisions.
* Utilized **Python** for automating data extraction and report generation processes, streamlining operations and reducing manual workload.
* Designed and **developed very complex** and large web pages using **HTML5, CSS3, jQuery and Bootstrap** for **Dynamic web pages.**
* Involved in developing the web pages using **Angular 6**, which are powerful in building the **Single page web applications.**
* **Spring Controllers** were used with **Angular.JS** to route the control to desired **Java services.**
* Used **Node.js** as a **proxy** to interact with **Rest services** and interacting with **Database.**
* Developed **XML** documents and generated **XSL** files for **Payment Transaction** and **Reserve Transaction systems.**
* **JMS** was used to **send/receive asynchronous data** from **various modules** in the application.
* Developed **Java classes** for implementing **Business logics** using **EJB (Stateless session, entity, message driven beans).**
* Used **JUnit Framework** for the **unit testing** of all the **java classes.**
* Implemented **Service Oriented Architecture (SOA)** and **web services** using **SOAP** with **JAX-WS.**
* Involved in writing **PL/SQL Stored Procedures, Functions, Triggers** and **Views** for **SQL database.**
* Involved in complete development of **agile** methodology where there is a daily **SCRUM** meeting to understand the status and resolve any issues.

**Environment:** Java 8, spring, MVC, Spring Boot, Hibernate, Eclipse, HTML5, CSS3, JavaScript, Angular 6, Angular.JS, Node.JS, XML, JMS, EJB, Log4j, JUnit, SOAP, REST, PL/SQL, SQL, Agile and Windows

# TD Ameritrade, Fort Worth, TX Feb 2018 – Jan 2020

**Java Full Stack Developer**

**Description:** The Generic Order Management System (GOMS) is primarily responsible for handling all the trading action on orders beginning at new order creation. It is a centralized application for different financial products such as equities, options, fixed income and mutual funds. Injected different types of batch files into the system through AWS and generated various output files to inject data to the legacy system.

# Responsibilities:

* Involved in **Design, Development** and **Support** phases of **Software Development Life Cycle (SDLC).**
* Worked on **Spring MVC** Architecture for web applications.
* Used **Spring Framework** as middle tier application framework, persistence strategy using **spring** support for **Hibernate** for integrating with database for back end.
* Developed and maintained **Oracle** databases for the Generic Order Management System (GOMS), ensuring robust and scalable data management solutions for trading platforms.
* Implemented real-time data replication and synchronization between Oracle and **PostgreSQL**, facilitating seamless data flow and integration across different trading modules.
* ​
* Involved in **designing** and **implementing scalable, Restful** and **micro services**-based mobile back-end. The back-end is being written in **Java** using **Spring Boot** for simplicity and scalability.

# Develop AWS Cloud Watch Event, S3 Event using lambda functions, Config Rules for Compliance/Audit Rules/Governance of the Production servers.

* Used Java 8 for default methods to implement multiple inheritance
* Developed the persistence layer using **Hibernate Framework** by configuring the **various mappings** in hibernate files and created

# DAO layer.

* Designed and implemented the user interface using **HTML5, CSS3, JavaScript and Angular JS.**
* Worked with **Angular 4** forms**, modules, DOM, events, expressions**, controllers, filters and Http Request.
* Used **Angular.JS** as framework to create a **Single Page Application (SPA)** which can bind data to specific views and synchronize data with server.
* Built and maintained data pipelines using **Python** and **PySpark** for processing large volumes of financial transaction data, improving the speed and reliability of the Generic Order Management System (GOMS).
* Developed automated data analysis scripts using **Python** to monitor and optimize trading performance, leading to improved trading strategies.
* Leveraged **PySpark** for parallel processing of trading data, significantly reducing data processing times and enhancing system performance
* Used **Node.js** as **a proxy** to interact with **Rest services** and interacting **with Database.**
* Used **EJB** through **Stateless** and **Stateful beans.**
* Review **AWS Cloud** and **Azure Cloud**: **Installation, configurations** for **Iaas** and **Paas Solutions**
* Implemented **Log4j** mechanism for logging and testing the application in **JBoss** application server.
* Developed **JUnit** test classes for **Controller, Service** and **Data layers.**
* Developed **RESTful** web service using **spring, micro services**, and **JAX-RS** for retrieving data from server and internal communication. Create and consume web services **(SOAP & REST).**
* Responsible for writing **SQL queries** and Stored Procedures using **SQL/PLSQL.**
* Work in an **Agile/Scrum** development environment.

**Environment:** Java 8, AWS spring, MVC, Micro Services, Spring Boot, Hibernate, Eclipse, HTML5, CSS3, JavaScript, Angular 4, Angular.JS, Node.JS, JMS, XML, EJB, Log4j, JUnit, SOAP, REST, SQL, Agile and Windows.

# Spectrum, St. Louis, MO March 2016 – Nov 2017

**Java Full Stack Developer**

**Description:** The project involved in re-developing monolithic architecture is re-developed using **Spring Boot Microservices** which handles different functionalities like ordering a connection, paying bills, checking the status, marketplace for products and support.

# Responsibilities:

* Developed Business Components in **Java/J2EE** and Involved in various phases of **Software Development Life Cycle (SDLC).**
* Designed the application architecture of the System based on **MVC (Model View Controller), spring Framework** and **J2EE specifications.**
* Worked with **Micro services** using **J2EE Web Services** based on **Spring Boot** and created dynamic documentation of **RESTful**

endpoints.

* Developed **java modules implementing business** rules and **workflows** using **Spring Boot.**
* Used **Hibernate** in data access layer to access and update information in the database.
* Designed and developed the **UI** using **HTML5, CSS3, JavaScript and Angular.JS** and worked with the features of **Angular** such as directives, modules and routing.
* Used **Angular JS** as **framework** to create a **Single Page Application (SPA)** which can bind data to specific views and **synchronize**

data with server.

* Used **Node.js** on the **server side** and to install necessary **packages into the application.**
* Used **XML** to transfer the application data between **client and server.**
* Used **JMS** to pass messages as **payload** to track statuses, milestones and states in the workflows.
* Involved in developing business components using **EJB Session Beans** and persistence using **EJB** Entity Beans.
* Implemented using **Log4J** for **logging errors**, debugging and **tracking**. **Resolving Customer Problem** on **Web Application.**
* Prepared **Junit** test cases and executed the test cases using **Junit** in **eclipse.**
* Developed **RESTful web service** using **spring, micro services,** and **JAX-RS** for **retrieving data** from server and internal communication. Create and consume web services **(SOAP & REST).**
* Designed **database and created tables, wrote** the complex **SQL** Queries and **stored procedures** as per the requirements.
* Worked on an **Agile** (Scrum) Development Team to deliver regular updates to business team and project managers.

**Environment:** Java 8, spring, MVC, Micro Services, Spring Boot, Hibernate, HTML5, CSS3, JavaScript, Angular.JS, Node.JS, JMS, XML, EJB, Log4j, JUnit, Eclipse, SOAP, RESTFUl, SQL, Agile and Windows.

# Macquarie Group,New York, NY April 2014 – Feb 2016

**Role: Java Full Stack Developer**

**Description:** I was working on this project, which focused on developing a comprehensive portfolio management system. This project enables organizations to efficiently track and analyze their investment portfolios, streamline trading activities, and generate insightful reports. This application helps in Real-time monitoring and analysis of investment portfolios, providing an overview of asset allocation, performance, and risk metrics.

# Responsibilities:

* Applied **Agile** Methodologies to respond effectively to changing project requirements. Orchestrated **Sprint** planning, backlog grooming, and **Sprint** review sessions.
* Crafted visually appealing and responsive web interfaces using **HTML5** and **CSS3**.
* Implemented dynamic and interactive features with **jQuery** for enhanced user experiences.
* Developed modular front-end applications with **Angular 7** and **TypeScript**.
* Utilized **Angular** CLI for efficient project scaffolding and maintenance.
* Implemented **Material** design principles using **Angular Material** for UI consistency.
* Leveraged **Java 9** features such as modules for improved code maintainability.
* Developed **Core Java** concepts like Collections, Multithreading, Synchronization, and Exception Handling.
* Designed and implemented **Microservices** architecture using **Spring Boot 2.0**.
* Utilized **Spring Cloud** for seamless communication and coordination between **Microservices**.
* Implemented **RESTful APIs** for communication between **Microservices**.
* Implemented robust authentication and authorization using **Spring Security**.
* Designed **API** specifications using **OpenAPI** standards for clarity and consistency.
* Conducted regular cost analyses and optimizations for **AWS** resources and integrated **API Gateway** with **AWS Lambda** for Serverless architecture.
* Led the implementation of a distributed real-time computation system using **Apache Storm**, optimizing the portfolio management system for real-time monitoring, analysis of investment portfolios, and instant performance reporting, resulting in improved asset management and risk assessment.
* Designed and deployed scalable applications on **AWS EC2** instances.
* Managed relational databases with **Amazon RDS** and implemented **NoSQL** solutions with **DynamoDB**.
* Implemented caching strategies using **ElastiCache**, **Redis**, and **Memcached**.
* Managed and optimized data storage using **Amazon S3**.
* Architected **AI/ML-driven** solutions on AWS for real-time portfolio management, improving decision-making processes and risk assessment accuracy.
* Utilized **Amazon API Gateway** for **API** management and deployment.
* Implemented versioning and documentation strategies for **RESTful APIs**.
* Utilized **DynamoDB** for scalable and high-performance **NoSQL** database solutions.
* Utilized **Git** for code reviews, ensuring code quality and adherence to standards.
* Integrated **Hibernate** for efficient mapping and communication with relational databases.
* Utilized **Docker** for containerization and **Kubernetes** for orchestration in **Microservices** environments.
* Customized workflows and configurations in **Jira** to align with project requirements.
* Conducted manual and automated testing using **TestNG** for comprehensive test coverage.
* Utilized **Rabbit MQ** for reliable and scalable message queuing.
* Set up and maintained **Continuous Integration** pipelines using **Jenkins**.
* Managed project dependencies and builds using **Maven**.
* Conducted unit testing using **Karma** and **Jasmine**, ensuring robust **Angular** applications.

**Environment**: Agile, HTML5, CSS3, jQuery, Angular 7, TypeScript, Angular CLI, Angular Material, Java 9, Spring Boot 2, Spring Cloud, Microservices, Spring Security, OpenAPI, AWS, EC2, RDS, DynamoDB, ElastiCache, Redis, Memcached, S3, API Gateway, NoSQL, Git, Hibernate, Docker, Kubernetes, Jira, TestNG, Rabbit MQ, Jenkins, Maven, Karma, Jasmine.

# Gemini Solutions, Hyderabad, India May 2012 – June 2013

**Software Developer/ Java**

**Description**: Worked on GUI application, a Java based application which uses Java Swing and HTML panels. The project involved in various backend Java Utilities which are designed and coded to handle the requirements.

# Responsibilities:

* Involved in analysis and design phase of **Software Development Life cycle (SDLC).**
* Designed and developed application based on **MVC** design pattern using **spring Framework.**
* Used **spring's IOC, Dependency Injection** and **Spring MVC** concepts in developing the application.
* Involved in development using **spring components** - **spring-config.xml, tiles, form-beans and plug-ins** in **spring architecture.**
* Used **Hibernate** in **data access layer** to access and update **information** in the **database.**
* Created **POJO classes** and writing **Hibernate Query Language (HQL)** queries.
* Communicated between different applications using **JMS.**
* Developing **Java Codes** and user interface front end screens as per user request.
* Involved in developing **raw java back end programs** for back end Interfaces programs which would involve processing the batch files and the **mock up files.**
* **Eclipse** is used for development as **IDE.**
* Developed the **XML** Schema and **Web services** for the data maintenance and structures.
* Planned and implemented **various SQL, Stored Procedure and triggers.**
* **Agile/SCRUM** was used as the project management methodology.
* Monitored team members to follow standards, guide lines and use new tools.

**Environment:** Java 7, spring, MVC, Eclipse, XML, JMS, POJO, Hibernate, SQL, Agile and Windows.