**Kancharla K**

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* Software developer with around 8 years of experience in various roles in Technology and Operations like designing, developing, and testing enterprise web and digital applications leveraging expertise in Java/J2EE technologies including Java 8/11, Spring, Spring Boot, Hibernate, Spring JPA, REST and Microservices.
* Java Professional with expertise in leading and supporting application development adopting Agile Scrum/TDD methodology. Contributions included active involvement in Sprint Planning, User Story Backlog Grooming, Design and Development, Validation, Production Support and Maintenance of Java/J2EE applications.
* Extensive experience using Spring framework in business layer for Dependency Injection, AOP, Spring MVC, Transaction Management and using Hibernate as a persistence layer.
* Good experience on working with Amazon Web Services like S3, Amazon RDS, Secrets Manager, Lambda Functions, EC2, Load Balancing, Amazon SQS, AWS Identity and access management, AWS Cloud Watch.
* Developed Producer-Consumer Integration patterns using Apache Camel Enterprise Integration patterns such as Message, Camel routes in both JAVA and XML DSL. Proficient in integration frameworks such as Apache Camel (version 3.21) and brokers such as ActiveMQ Artemis.
* Proficient in creating CI/CD pipelines to build and deploy code with a good understanding of Kubernetes.
* Working knowledge of Microservices architecture including the decomposition of monolithic code base into Microservices. Well experienced with build tools like Gradle, Maven.
* Having expertise, knowledge, and experience on Java 8 features like Functional Interfaces Multithreading, Collection API, Exceptional Handling, Time API and Stream API.
* Experience in handling messaging service using Kafka.
* Migrating bulk data from one database to another database and capturing the change data using Qlik and Kafka and sending data to downstream applications.
* Profound experience in creating real time data streaming solutions using Kafka.
* Strong knowledge of database software including Oracle, MySQL and PostgreSQL.
* Base experience in UI development using HTML5, CSS3, JavaScript, AngularJS.
* Led and supported Unit Testing, Integration Testing using Junit, Mockito framework and addressing defects, bug fixes and enhancements.
* Quick in analyzing, debugging issues in application and identifying bottlenecks and optimizing system performance.
* Proficient in writing clean, maintainable, and well-documented code following best practices and design patterns. Proficient in utilizing Spring IO and Spring Boot frameworks with extensive hands-on experience.
* Implemented security to RESTful web services using OAUTH 2.0.
* Good knowledge on implementing authentication and authorization for web services using Spring security. Delegate Pattern, Front Controller Pattern, Singleton, MVC etc.
* Implementing Splunk and Dynatrace for monitoring and log management and working on building proxies and policies with an APIGEE (Application Programming Interface Gateway).
* Extensively used Log4j to log regular Debug and Exception statements.
* Implemented the microservices architecture based on RESTful API using Spring Boot, MVC.
* Experience in coding using Python Language to connect to AWS services using boto3.

# Tools and Technologies

Java/J2EE Technologies:Java 11/1.8, J2EE, Spring, JPA, Hibernate, Web Services (SOAP/REST), Microservices, JUnit, Kafka, Apache Camel, Python

Web Technologies:HTML5, CSS3, JavaScript, Typescript, JSON, Angular 6, Bootstrap

Database Technologies:Oracle, PostgreSQL, MySQL, AWS Aurora, Dynamo DB

Productivity Tools:Maven, Jenkins, Postman, Eclipse, IntelliJ, PyCharm, Git, JIRA, Insomnia, Visual Studio

Cloud Technologies: AWS (EC2/S3, RDS), Kubernetes

**Education**

Master of Science in Computer Science, University of Central Missouri Aug 2021– Dec 2022

Bachelors in Electronics & Communication Engineering, Annamacharya Institute

of Technology and Sciences AITS), India Aug 2012– Apr 2016

**Professional Experience**

**TIAA, Charlotte, NC** Sep 2022 –Till Now

**Role:** *Software Developer*

TIAA is an American financial insurance organization that provides financial retirement services for people in various fields. As part of the new Secure Income ACT 2.0 users are made available to new investment plans with several traits. Application reads the incoming recordkeeper & fund files that contains the customers’ daily contributions for various funds and perform ledgering based on interests, annuity, rebalances etc. and send a report with overall balances for reconciliation.

* Developing the financial ledger using JAVA Spring Boot 3.2, concepts such as JAVA 8 Streams, building Entity classes, Repository and Service layers for computational logic.
* Involving in all the phases of SDLC including Requirements Collection, Designing& Analysis of the Customer Specifications and Developing of the Application.
* Working on developing multiple Spring boot microservice applications and using Apache Camel for Integrating between applications.
* Helped in building the conceptual design of the client's product using AWS services such as S3, SQS, Step Functions, DynamoDB and Aurora PostgreSQL during business requirements phase.
* Working on Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack such as S3, Lambda, EC2, RDS, Cloud Watch, focusing on high availability, Load balancing and auto-scaling in designing, Deploying and configuring.
* Developing AWS Lambda to perform event-based batch processing using JAVA code.
* Implementing RESTful Web Services to retrieve/update data from client side using Micro Services architecture.
* Performing container-based deployments using CI/CD pipelines, Jenkins and Kubernetes.
* Created an AWS RDS Aurora DB cluster and connected to the database through an Amazon RDS Aurora DB Instance using the Amazon RDS Console.
* Discussing with the analysts to gather the requirements, perform the feasibility analysis, prepare the solution and develop the efficient logic.
* Coordinating with the team members to analyze on various thoughts and ideas to implement the code by following standards and make sure to provide production ready code.
* Designing the detailed database, with clear understanding on end-to-end requirements, including tables, indexes, views, constraints, triggers and other database-specific constructs needed to store, retrieve, and delete persistent objects.
* GIT is used as code repository and JIRA to assign, track, and report the issues in the application.
* Developing Test Driven Development (TTD) for both new and existing applications. Implementing various test cases using Junit and Mockito.
* Extensive SDLC experience including Requirement Analysis, Design and Coding, Application Implementation, Unit Testing, System Testing, Regression Testing and Production Support.
* Attend daily scrum calls and weekly planning/refinement meetings to interact with stakeholders and business analyst to have clear understanding of business requirements.
* Provide release notes for future tracking of JIRA stories/defects.
* Create and maintain design documentations, mapping documents and business approvals.

Environment: Java 11/1.8, Spring Boot, Apache Camel, Spring Data JPA, Hibernate, AWS services EC2, S3, SQS, RDS, Cloud Watch, Lambda, Glue Job, IAM, Secrets Manager, KMS, Junit5, Mockito, Docker, Jenkins, Kubernetes, RESTful Web Services, GIT, JIRA, Artemis MQ, Maven, Gradle.

**Infosys** Nov 2016 – July 2021 **Role:** *Technology Analyst*

**Client-1: Avery Dennison**

* Monitored a retail-based e-commerce web application in production, performing application and database server maintenance. Resolved defects, bugs, and priority issues in L3 support.
* Lead and developed micro services for enabling legacy systems to support the digital and cloud strategy of the various project needs across multiple business units.
* Enhanced the application capabilities by introducing a feature allowing users to upload Excel files for the ordering process, utilizing Apache POI v3.17.
* Developed a feature to generate order confirmation PDFs using iText v7.1
* Implemented a job that triggered daily to fetch report data and writing it to a CSV file. The data was then transferred to the client's FTP server using Java 8, RESTful Web Services, and Hibernate.
* Developed a feature to send emails for failed orders to the customers with all the order details utilizing JavaMail and SMTP server.
* Analyzed software requirements to determine feasibility and estimated the efforts needed for design and implementation of the technology solutions.
* Developed REST API’s using Spring Boot to call REST service using Web Client as well as creating HTTP Interface Client. Proficient in developing Controllers, Interfaces and implementation classes using Spring framework & used Microservice architecture with Spring Boot.
* Interpreted end-user business requirements to develop/modify technical design specifications.
* Lead scrum meetings and coordinated with business stakeholders to understand the client business needs and implement the same into a functional design.
* Selecting the appropriate AWS service based on data computation and security requirements.
* Build and deployed J2EE applications, projects and version control systems using ANT framework, JIRA, deployment scripts, cluster environments, Apache and GitHub.
* Participate in Disaster recovery exercise and validate the application functionality.
* Develop Layers to add all the required dependencies, common code implementations and import these layers as a single dependency in lambda function.
* Written complex SQL join triggers and stored procedures.
* Performed unit and integration testing and assist with developing unit test scripts.
* Defined, developed, communicated and implemented standards, processes and procedures.
* Ensure proper code build using Maven and Work on Continuous Integration using Jenkins.
* Actively participated in code reviews, ensuring adherence to coding conventions and best practices for high-quality code.
* Provided continuous production support and monitored Incidents to avoid SLA breaches.
* Document all the details about project on Confluence.
* Mentored and provided knowledge sharing sessions to junior developers to continually build the skills and support application and peer collaboration.
* Check SonarQube for unit test coverage and write appropriate Junit’s to cover all possible scenarios. Fix code smells and vulnerabilities listed in SonarQube for better code quality.
* Analyze Dynatrace breakdowns for memory leaks, transaction tracing, and response time.
* Provide On-Call support during which the On-call person is responsible to monitor the applications 24/7 and respond for all ServiceNow incidents.

**Environment:** Java 1.8, JDK, JEE, Agile TDD, AWS, JSP, JavaScript, Angular 5, HTML, XML, CSS, Spring MVC, Spring Boot, Kafka, REST, JSON, Jenkins, JUnit, pgAdmin, JBoss, IBM WebSphere, Apache Tomcat, Eclipse/STS, IntelliJ, GitHub, Maven, Gradle, JIRA

**Client-2: Northwestern Mutual**

* Worked for Underwriting application development to provide company an insight about the applicant information including personal, payroll, asset details to assess risks and make appropriate decisions.
* Developed the logic to allow users to download the application details in PDF format and used it as reference for further processing.
* Provide estimates along with detailed software specifications and test plans for each release.
* Create release design, plan and co-ordinate with stakeholders as per business release calendar.
* Conduct code walkthroughs to assure quality of programs developed by other associates.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Design and develop REST and Microservices to integrate Transaction Services with internal applications as well as third-party applications including benefits providers.
* Provide quality assurance reviews ensuring comprehensive coverage of business requirements.
* Lead multiple releases adopting Agile software development lifecycle while working with cross-functional team members including Development Leads, Architects, Quality Assurance, DBAs, and Product Owners in a highly collaborative development environment.
* Deploy the software applications in Kubernetes.
* Provide technical analysis of product or application hardware and software to ensure that business and functional requirements can be met.
* Evangelize newly developed best practices, software development techniques, and frameworks with other teams within the organization.
* Develop new UI and data layers based on Java and Mobile technologies and techniques.
* Monitor the deployment of the application using Electric Flow.
* Perform unit / performance testing on software under load to ensure reliability and scalability.
* Provide technical support to Business Owners during implementation of new products/services and provide subject matter expertise for support escalations.

**Environment:** Java8, JEE, Agile, Angular JavaScript, AWS, HTML, CSS, Spring, Spring Boot, REST, JSON, Jenkins, Kubernetes, JUnit, Mockito, Maven, DB2 Connect, Eclipse/STS, IBM Data Studio, JDK, Gradle, JIRA, ServiceNow

**Client-3: Trainee (Infosys)**

* Generic - Got trained in Python v3.5, Object Oriented Programming (OOP’s) concepts, Data Structures and Algorithms along with Oracle 10g.
* Developed a basic banking application with mobile banking features like open new account, transfer money, pay bills, loan approval, close account and more using above technologies.
* Familiarized with Software life cycle development concepts, Agile methodology, Kanban model.
* Attended daily meetings and involved in team discussions to understand requirements and approach to be followed to implement the logic.
* Stream - Got trained in Java8, Regex, Junit5, Hibernate, RESTful webservices, Log4j2, Java Script, AngularJS, HTML5, CSS3, Bootstrap, MySQL
* Developed a web application applying above technologies which deals with top products, suppliers and customers, like adding new product, selling them, deleting products, registering new seller and buyers by having both normal user and admin user.

**Environment:** Java8, JEE, Core Java, Regex, Hibernate, Oracle database, Junit5, Python, REST, HTML, CSS, Angular, Jenkins, Maven, Eclipse/STS, JDK, JIRA, Git, GitHub, IntelliJ

**Datalysys, India** Oct 2015 – Jul 2016

**Role:** *Developer*

* Learned about various stages in Software development life cycle typically Planning, Analysis, Design, Development, Testing, Implementation, and Maintenance.
* Followed Agile methodology to break work into sprints, track the stories and collaborating with team members to design and develop effective applications.
* Developed sequence diagrams depicting method interactions, using MS Visio.
* Developed application using Spring MVC on the presentation layer, the business layer is built using Spring, and the persistent layer using Hibernate and Spring JPA
* Data Operations were performed using Spring ORM wiring with Hibernate and Implemented Hibernate Template and criteria API for the Querying database.
* Implemented all the components of the Spring Framework (Controller classes, Spring Bean Configuration file (dispatcher-servlet.xml).
* Used WSDL and SOAP protocol for Web Services implementation.
* Wrote stored procedures, and SQL scripts in Oracle for Data Accessing and manipulation.
* Compiled and built the application using ANT scripts and deployed the application.
* Configured and created application log files using Log4J.
* Actively involved in code reviews and bug fixing.
* Participated in the status meetings and status updates to the management team.

**Environment:** Java/J2EE, Hibernate 4, Spring, Spring JPA, XML, web services, WSDL, SOAP, HTML, CSS, Oracle 10g, GIT, Angular, Log4J