**Shikha Mishra**

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**PROFESSIONAL SUMMARY**

* **Sr. Java Full-Stack Developer** Over 10+ years of comprehensive experience as a **Java Full-Stack Developer**, adept in both **backend** and **frontend** technologies.
* Proficient in **Java, C++, PL/SQL**, and **Python**, demonstrating expertise in building robust and scalable backend systems.
* In-depth knowledge of the **Software Development Life Cycle (SDLC)** and **Agile/Scrum** methodologies.
* Extensive experience with **JSP, servlets, JDBC, Java Beans,** and **Java Security** for creating dynamic and secure web applications.
* Implemented **RESTful** services using **JAX-RS** and **JAX-WS**, ensuring efficient communication between components.
* Accomplished in frontend technologies such as **HTML, AJAX, Bootstrap, JavaScript, jQuery, JSON, NodeJS, Angular, Node.js** and **React.**
* Proficient in crafting user-friendly interfaces with a focus on responsiveness and modern design.
* Expertise in utilizing **Spring framework, including Spring Boot, Spring MVC, Spring Security, Spring IOC, Spring AOP,** and **Spring Cloud**.
* Implemented unit tests with Junit, integrating testing into the development process with **Test Driven Development (TDD).**
* Proficient in working with various databases, including **Oracle, SQL Server, MySQL, MongoDB, DynamoDB, PostgreSQL,** and **Cassandra.**
* Implemented design patterns **like Singleton, Factory Method, MVC, Data Transfer Object,** and **Data Access Object** for efficient data handling.
* Implemented **Docker and Kubernetes** for containerization and orchestration, ensuring seamless deployment and scalability.
* Utilized **Terraform** for infrastructure as code, streamlining resource provisioning.
* Proficient in build tools like **Maven** and **Gradle**, and continuous integration tools such as Jenkins.
* Ensured smooth deployment processes using industry-standard **CI/CD** practices.
* Implemented a range of testing tools, including **Junit, Mockito, SOAP UI, Selenium, Cucumber, Postman, Cypress**, **Karma, Jasmine,** and **log4j.**
* Conducted thorough testing to ensure the reliability and performance of applications.
* Worked with popular IDEs like **Eclipse** and **IntelliJ**, ensuring a streamlined development process.
* Proficient in both **Windows** and **Linux** environments, adapting to diverse operating system requirements.
* Extensive experience with cloud platforms, including **AWS (EC2, ECR, ECS, RDS, Lambda, S3, CloudWatch), PCF,** and **Azure.**
* Utilized **Hibernate** and **JPA** for efficient data persistence, ensuring optimal interaction with databases.
* Managed source code using **Git** and **SVN**, ensuring version control and collaboration among development teams.
* Worked with various web servers, including **Apache Tomcat**, **IBM WebSphere, JBoss, WebLogic**, and **Jetty**.
* Proficient in message brokers like **Apache Kafka, IBM MQ 8.0, JMS, Rabbit MQ,** and **Active MQ** for efficient communication between components.
* Demonstrated history of leveraging Redis for caching, session storage, and real-time analytics in Java-based environments.
* Extensive experience in **Scala** programming and **Spark** framework, demonstrating expertise in developing scalable and efficient data processing solutions.
* Proficient in harnessing **BigQuery** for large-scale data processing and analytics, coupled with expertise in **Kibana** for advanced dataset visualization, optimizing decision-making through comprehensive data insights.

# EDUCATION

# TECHNICAL SKILLS

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| |  |  | | --- | --- | | **Programming Languages** | C, C++, Java, JavaScript, PHP, PL/SQL, Python, Scala | | **Software Methodologies** | Agile, Scrum and Kanban, Waterfall, Software Development Life Cycle (SDLC), Test Driven Development (TDD), | | **J2EE Technologies & Frameworks** | Core Java, JSP, servlets, Java Database Connectivity (JDBC), Java Beans, Java Security, Hibernate, JPA, JTA, JSTL, JSF, RMI, Applets, AWT | | **Web Technologies** | HTML, HTML5, CSS/CSS3, AJAX, Bootstrap, jQuery, JSON, XML, Grunt, Gulp | | **Web Service Frameworks** | Spring 5.0, Spring Boot, Spring MVC, Spring security, Spring Batch, Spring Actuators, Spring IOC, Spring AOP, Spring Cloud Junit, Struts 2.5 | | **Web Services** | SOAP, RESTful API, GraphQL, AJAX-RS, JAX-WS | | **JavaScript Frameworks** | Angular, TypeScript, jQuery, React, Node.js, Vue.js | | **Databases** | SQL server, MYSQL, PostgreSQL, Oracle, DB, DB2, No SQL, MongoDB, DynamoDB, Cassandra,Redis | | **Design Patterns** | Singleton, factory method, MVC, Data Transfer Object, Data Access Object | | **Testing Tools** | Junit, Putty, Splunk, Mockito, SOAP UI, Selenium, Cucumber, Postman, Cypress, Karma, Jasmine | | **IDEs** | Eclipse IDE, IntelliJ IDEA, Visual Studio, Net Beans | | **Operating Systems** | Windows, Linux | | **Cloud Technologies and Containerization** | AWS, GCP, Azure  Docker, Kubernetes, Jenkins | | **Cloud and database tools** | AWS EC2, AWS ECS, AWS S3, AWS RDS, Aws Lambda, MongoDB compass, MYSQL Workbench | | **Version Control Tools** | SVN, CVS, GIT, GitHub, GitLab, | | **Wed/Application Server** | Apache Tomcat, Apache Wicket, IBM WebSphere, Jboss, WebLogic, Jetty | | **Messaging Platforms** | Apache Kafka, IBM MQ 8.0, JMS, Rabbit MQ, Active MQ | | **Security** | OAuth, JWT (JSON Web Tokens), SSL/TLS | | **API Testing and Documentation** | Postman, Insomnia, Swagger | | **Build Tools** | Maven, Gradle, ANT | | **Messaging** | Java Message Service (JMS), IBM MQ, Apache Active MQ, Apache Kafka, RabbitMQ | | **Logging, Monitoring and Code Quality** | Log4j, Slf4j, Cloud Watch, SonarQube, Sonar lint | | **Project management and communication** | Jira, Asana, Slack, Microsoft Teams | |

# WORK EXPERIENCE

# Client:PG&E NJ Jan 2023 to till now.

**Sr. Java Full-Stack Developer**

#### Responsibilities:

* Directed backend development using **Core Java11** and **Java17**, demonstrating in-depth knowledge of the language, and ensuring code quality and performance.
* Utilized **Java Server Pages (JSP)** and Servlets in **Java11** for dynamic web content, seamlessly integrating with **Java17** pattern matching for switch statements to enhance **RESTful API** readability and flexibility.
* Implemented **Java 17's** record types and sealed classes for concise, immutable data modeling in microservices, enhancing readability through pattern matching for streamlined code logic.
* Designed and implemented **multithreaded** applications in **Java**, leveraging core concepts such as thread synchronization and concurrency.
* Utilized Redis for session management and to store transient data, significantly improving user experience through faster data retrieval.
* Leveraged **Scala** for advanced data processing, employing its robust type of system, and ensured seamless interoperability with **Java** for cohesive development integration.
* Implemented **Scala** concurrency for efficient financial data processing and seamlessly integrated third-party **APIs**, enhancing functionality.
* Proficient in designing, developing, and optimizing backend systems leveraging Google **Big Query** for large-scale data processing, analytics using **Scala** programming language and **Apache Spark framework**, with a focus on building robust and scalable data processing pipelines.
* Developed CLI tools and utilities in **Go**, leveraging **Go** Modules for dependency management, ensuring versioning, reproducible builds, and enhanced developer productivity.
* Utilized **Spring Boot 2.x** to develop robust **microservices**, seamlessly integrating with system components. Designed **Restful APIs**, adhering to best practices, and architected modular microservices for enhanced scalability and easy maintenance.
* Utilized **Hibernate** Criteria **API** and **HQL** (Hibernate Query Language) for dynamic and efficient querying of database entities by implementing **AWS Lambda** functions and integrated with **Virtual Private Cloud (VPC)**, ensuring secure and scalable cloud-based solutions.
* Implemented scalable and secure data storage solution using **Hibernate** leveraging **AWS S3** for object storage and **AWS RD**S for relational databases.
* Employed **JPA** for robust data persistence, ensuring integrity. Integrated **Apache Kafka** for **microservices** communication, elevating system responsiveness and reliability significantly.
* Implemented **Splunk** for real-time monitoring and logging, ensuring proactive issue resolution. and Integrated **Apache Kafka** for efficient event streaming, enhancing system resilience and responsiveness.
* Orchestrated **JBoss** application server configurations for optimal performance and scalability in enterprise Java applications.
* Implemented **CI/CD** pipelines using tools like **Jenkins** or **GitLab CI,** ensuring automated and streamlined deployment processes.
* Led the development of the frontend using **Angular 11**, Node.js for creating dynamic and responsive user interfaces.
* Integrated **RxJS** and collaborated with frontend developers to integrate **Node.js** backend services with frontend frameworks like **Angular 11** for enabling efficient handling of asynchronous operations.
* Utilized **HTML, CSS, Bootstrap,** and **JavaScript** to design and implement visually appealing and user-friendly interfaces, ensuring a seamless user experience.
* Implemented and executed unit tests using **Jasmine, Karma**, and **end-to-end tests** using **Selenium**, ensuring robust frontend code quality.
* Seamlessly integrated **Selenium** **WebDriver**, leveraging its capabilities for user interaction simulation and ensuring consistent cross-browser functionality across diverse layers.
* Engaged in **Agile** ceremonies, collaborating seamlessly with cross-functional teams, Proficient in **Git** for version control and adept at Docker frontend applications for consistent development, testing, and deployment.
* Proficiently employed **JIRA** for streamlined project management and **Agile** practices, while expertly orchestrating containerized applications with **Kubernetes** for optimal efficiency.
* Applied **Python** scripting for automation and custom tool development, enhancing development workflows.
* Utilized **Python** for risk management, developing tools for risk analysis and implemented unit tests and test automation in **Python**.
* Implemented Redis as a caching layer for the application, reducing load times , significantly improving the application’s scalability.
* Proficiently utilized **Node.**js with **MongoDB** for **NoSQL** data storage, ensuring optimal data manipulation.
* Utilized **Maven** for project build automation, ensuring consistent and reproducible builds.
* Developed and debugged code efficiently using **IntelliJ IDEA**, maximizing productivity.
* Applied **Junit** and **Mockito** for unit testing, ensuring code reliability and maintainability.
* Accomplished in designing and optimizing **Kibana** visualizations, employing **Test-Driven Development (TDD)** methods to ensure high-quality, reliable, and maintainable code throughout the development lifecycle.

**Environment: -** Core Java 11,17, Multithreading, Scala, Golang, Spring Boot 2.x, Restful API, Spring cloud, JAX, AWS, Lambda, S3, RDS, VPC, Splunk, Cloud foundry, Angular 11, Node.js, Kubernetes, Python, Maven, Git, Docker, Apache Kafka, JBoss, Wicket, JPA, microservices, HTML, CSS, JavaScript, MongoDB,Redis, Cassandra, IntelliJ, Jasmine, Karma, Selenium, Junit, Mockito, Agile Methodology, CD/CI, JSON, Big Query, Spark, TDD, Kibana, JIRA.

# Client: CarMax TX Sep 2019 to Dec 2022

# Java Full-Stack Developer

# Responsibilities:

* Leveraged **Core Java 8** features to develop robust and scalable backend applications.
* Integrated the **Nashorn** **JavaScript** engine for seamless integration of **JavaScript** code within **Java 8** applications, facilitating interoperability.
* Led migration to **Java 8**, optimizing performance. Developed efficient **multithreaded** algorithms, enhancing scalability and performance in CPU-intensive tasks.
* Utilized **Scala** to enhance healthcare analytics, implementing intricate algorithms for valuable insights, and enforced robust security measures using **Scala** for safeguarding sensitive data.
* Developed modular and maintainable code with **Spring framework** along with **Hibernate**, employing dependency injection and aspect-oriented programming implementation secure authentication authorization mechanisms using **Spring Security.**
* Utilized **Python** for healthcare analytics, creating algorithms for medical data insights. Seamlessly integrated **Python-based APIs** for system communication.
* Integrated **OAuth 2.0** for enabling secure, delegated access to resources in the application.
* Strengthened application security with **JWT** for secure communication, implemented efficient batch processing, and ensured robust scheduling, execution, and monitoring using **Spring Batch**.
* Architected and implemented **Microservices** architecture in healthcare using **Scala**, ensuring security compliance, scalability, and seamless integration for optimal performance.
* Ensured **Microservices** adhered to healthcare data security standards, including **HIPAA** regulations, implementing secure communication protocols and access controls.
* Integrated health monitoring solutions into **Microservices**, coupled with robust logging using tools like **ELK stack**, ensuring proactive issue identification and resolution.
* Designed and optimized **Oracle** database schemas for data integrity, implementing **CRUD** operations and complex queries to optimize database interactions for performance.
* Designed and implemented **RESTful** **APIs** using **Spring Boot**, adhering to best practices.
* Configured **Tomcat** connectors, such as HTTP, AJP, and SSL, to enable secure and efficient communication between the server and clients.
* Ensured seamless frontend integration through scalable **API** design, versioning, and documentation, while implementing **Kafka** for reliable asynchronous messaging across system components.
* Conducted performance tuning for **Kafka** clusters, ensuring optimal throughput and low-latency communication.
* Integrated **Node.js** with **AWS**, utilizing services like **EC2, S3, Lambda**, **IAM** and **RDS** for scalable and reliable hosting.
* Implemented **AWS** **Auto Scaling** for dynamic computing capacity adjustments based on demand, complemented by **AWS Elastic Load Balancing** to distribute traffic, ensuring optimal resource utilization and enhanced availability.
* Engineered responsive and visually captivating user interfaces with **HTML, CSS, and Bootstrap**, ensuring cross-browser compatibility, and implemented dynamic interactivity using **React, Node.js** and **TypeScript** with focus on modular frontend architecture.
* Utilized **Apache Wicket** component-based architecture for rapid **UI** development, employing its **MVC** pattern to maintain codebases in web applications.
* Established robust **CI/CD** practices, integrating **Git, Maven,** and **Jenkins** for efficient code integration, testing, and deployment.
* Ensured code reliability by testing unit tests with **Jest** for **React** components and implementing end-to-end testing using **Cypress** to validate overall application functionality.
* Utilized **Cucumber** for **behavior-driven development (BDD)** and collaborated on writing feature specifications.
* Developed dynamic web pages using **JSP** and **Servlets** for server-side rendering.
* Designed and implemented complex entity mappings, associations, and inheritance hierarchies using **Hibernate** annotations **XML** and **XSLT** for transforming and presenting data in a structured format.
* Containerized applications using **Docker** for consistent deployment and orchestrated containers with **Kubernetes** for efficient scaling and management across diverse environments.
* Embraced **Test-Driven Development (TDD)** to ensure code quality, reliability, and maintainability.
* Wrote unit tests and integration tests for both backend and frontend components using **Junit, Mockito, Jasmine** and **Karma.**
* Integrated **Tomcat** servers with monitoring and logging tool **Log4j** for logging, configured levels, and monitored logs. Conducted system testing, **UAT** coordination, led deployment, provided post-support, created Kibana dashboards, and documented projects.
* Actively participated in **Agile** ceremonies, including sprint planning, daily stand-ups, and retrospective meetings.
* Created and maintained user stories, epics, and tasks in **Jira**, facilitating clear communication and alignment of project objectives across cross-functional teams.

**Environment:** Java 8, Spring framework, Spring Boot, Spring security, Microservices, JWT, OAuth 2.0, Spring Batch, Node.js, TypeScript, JSP, Servlets, XML, XSLT, Log4j, Eclipse, Jenkins, GitHub, Tomcat, Wicket, Oracle, REST API, CI/CD, Agile Methodology, XSD, TDD, Windows, AWS, S3, EC2, ECR, RDS, Docker, Kubernetes, Kafka, HTML, CSS, Bootstrap, React, Jest, Cypress, Cucumber, Kibana.

# Client: Cisco,India June 2017 – May 2018

# Java Developer

# Responsibilities:

* Spearheaded the design and development of backend systems using **Core** **Java 8, J2EE**, and **microservices** architecture, ensuring robust and scalable financial applications.
* Integrated the **Java 8** Date and **Time API** for streamlined handling of date and time operations, ensuring accuracy and consistency in financial applications.
* Designed and implemented **SOAP** based services, leveraging Java technologies (**JMS, Hibernate, Servlets**) to enhance data communication and processing speed.
* Orchestrated the integration of **EJB 3.0** components for seamless transaction management and data integrity in a **WebLogic 10g** environment.
* Utilized **JDBC** for efficient database connectivity, implementing optimized queries and stored procedures for **MongoDB** leveraged with **Mongoose ORM** in **Node.js** for data storage to manipulate complex data.
* Implemented **Hibernate 4.0** for **ORM** mapping, ensuring streamlined data access and persistence.
* the migration to a **microservices** architecture, breaking down monolithic structures into modular and independently deployable services.
* Leveraged **Kafka** for asynchronous communication between **microservices**, enhancing system responsiveness.
* Stayed abreast of **Kafka** advancements, implementing the latest features and best practices to optimize data.
* Demonstrated expertise in **Angular**, leading the front-end development with a focus on modern, responsive, and dynamic user interfaces.
* Implemented state management using **NgRx** and **Angular**, **Node.js** enhancing predictability and scalability in handling complex application states **Angular.**
* Developed visually appealing frontend interfaces using **Bootstrap 4.0, HTML5, CSS3**, and **JavaScript** to create dynamic and responsive user experiences.
* Designed and implemented interactive **Kibana** dashboards for effective data visualization, enabling stakeholders to make informed financial decisions.
* Implemented **CI/CD** pipelines using **Jenkins** and **Maven**, automating the build, test, and deployment processes for increased efficiency and reliability.
* Integrated **Postman** for **API** testing and validation, ensuring the seamless functioning of backend services.
* Deployed applications on **AWS**, leveraging services like Lambda for serverless computing, and utilized **Kubernetes** for efficient container orchestration.
* Implemented robust security measures on **AWS**, utilizing **IAM** for access control and permissions, and ensuring compliance through data encryption with **AWS KMS** for both in transit and at rest scenarios.
* Utilized **Big Query** for analyzing large datasets, extracting valuable insights for financial decision-making.
* Championed **Test-Driven Development (TDD)** **with Junit, Mockito**, and **Jasmine**, **Karma** ensuring code quality, reliability, and maintainability through thorough unit, integration, and end-to-end testing.
* Showcased proficiency in **end-to-end testing** with **Selenium**, validating the seamless interaction between the frontend and backend components for the insurance domain.
* Ensured adherence to **UML** standards, providing clear and concise documentation using **swagger tool** for seamless collaboration within the development team.
* Applied **Agile methodology** to coordinate with cross-functional teams, facilitating efficient project delivery.
* Customized **Jira** boards, workflows, and issue types to suit project requirements, enhancing team efficiency and optimizing task management processes.

**Environment:** Java 8, J2EE, SOAP, Bootstrap 4.0, JSP, JMS, Hibernate 4.0, servlets, microservices, Spring 3.0, Agile methodology, EJB 3.0, WebLogic 10g, JDBC, JavaScript, Eclipse, HTML5, CSS3, XML, Bootstrap, CI/CD, UML, MongoDB, TDD, Maven, Angular, Jasmine, Karma, Selenium, Postman, Junit, Kafka, Mockito, Big Query, Kubernetes AWS, Lambda, IAM, KMS.

# Client: Bharti Airtel, India Oct 2016 – Apr 2017

# Java Full-Stack Developer

# Responsibilities:

* Implemented secure authentication and authorization mechanisms in **Java 8** applications, ensuring robust security.
* Led the development of scalable and efficient **microservices** architecture using **Spring Boot**, fostering improved system performance.
* Spearheaded the adoption of best practices and design patterns in **microservice**s development, ensuring maintainability and extensibility.
* Designed and implemented robust backend solutions utilizing **Spring MVC** and **Hibernate,** ensuring high-quality code that met industry standards.
* Orchestrated seamless data integration with **PostgreSQL** databases, optimizing query performance and database interactions.
* Implemented **SOAP** services for smooth communication between **microservices**, ensuring data consistency and reliability.
* Utilized **Kafka** for event-driven architecture, enhancing real-time data processing and communication across services.
* Implemented **CI/CD** pipelines to automate the deployment process, reducing time-to-market for new features.
* Spearheaded the **Dockerization** of **microservices** and their deployment on **Kubernetes**, optimizing resource utilization and scalability.
* Managed and deployed applications on **AWS**, leveraging various **AWS** services to enhance system reliability and scalability.
* Developed responsive and user-friendly **UI** components using **React, Bootstrap, HTML, CSS**, and **JavaScript**, ensuring a seamless user experience.
* Implemented **Jest** and **React Testing Library** for comprehensive unit and integration testing of frontend components.
* Integrated **AJAX** and **jQuery** for efficient and dynamic data rendering, enhancing user interactivity.
* Collaborated with **UX/UI** designers to create visually appealing and intuitive user interfaces.
* Implemented Cucumber for **Behavior-Driven Development (BDD)** to ensure that features meet business requirements.
* Conducted thorough testing at both the **unit** and **integration** levels, ensuring the delivery of high-quality software.
* Played a pivotal role in **Agile** development, participating in sprint planning, daily stand-ups, and retrospectives.
* Collaborated in iterative feature delivery, aligning with business goals, and maintained comprehensive documentation for code, system architecture, and deployment processes, enhancing team knowledge transfer.

**Environment:** Java 8, Spring Boot, microservices, Spring MVC, Hibernate, XML, SOAP, Postgre SQL, Kafka, Docker, Kubernetes, Jenkins, AWS, React, Node.js, Jest, React Testing Library, HTML, CSS, JavaScript, Bootstrap, jQuery, JSON, JSP, AJAX, Cucumber.

**Client: Colt Technologies, Gurugram, India May 2015 – Apr 2016**

**Java Developer**

**Responsibilities:**

* Involved in daily Scrum meetings, Sprint planning and estimation of the tasks for the user stories, participated in retrospective and presenting Demo at end of the sprint. Communication with external teams, verbally and written daily.
* Created Single Page Application (SPA) which can data bind and synchronize server with Angular 4 framework.
* Developed user interfaces using JavaScript, jQuery, HTML, XHTML, CSS custom tags, AngularJS.
* Extensively used MVC, Factory, Delegate and Singleton design patterns.
* Diverse experience utilizing Java tools in business, Web and client-server environments including Java J2EE, Java multi-threading, Java Server Pages (JSP), Java Servlets, Struts, spring, Hibernate and Java database Connectivity (JDBC) technologies.
* Extensively used various modules in Spring like AOP, DI(IOC), Bean Auto wiring, Spring Inheritance, Auto Wiring, Spring JDBC Templates and Spring Q932uartz Schedulers for Jobs.
* Developed web services and responsible for creating web services using Restful and SOAP with HTTP protocol.
* Hibernate DAO classes were developed to retrieve and save data using Spring framework manager classes.
* Experience in Creating, Dropping Indexes, Tables, Stored Procs and Views on Oracle12c DB and LDAP.
* Used JSP in web view layer.
* Used Spring in web layer as MVC framework.
* Coding and Unit testing of application.
* Give L3 Support application on the Production.
* Development and Maintenance of various Modules of Application.

**Environment:**Java 1.8, Agile (SCRUM), HTML5, CSS3, JavaScript, NodeJS, jQuery, Ajax, Bootstrap, Angular 4, Micro Services, Hibernate, Spring, Spring Boot, Spring Security, XML, GIT, JSP, Spring MVC, JDBC, Maven, Restful, Java Server Pages, JIRA, Eclipse

**Client: Global Edge, India**

**Role: Java Developer Duration: Jun 2012—Apr 2015**

**Responsibilities:**

* Involved in Java and J2EE Technologies includes Core-Java, Multi-threading, JDBC, Servlets, JSP.
* Responsible for Modification of existing applications to add new components and features emphasizing maintainability, reliability, scalability and performance, Integration of Web Applications.
* Developing popular open source technologies and frameworks like Struts, ORM-Hibernate.
* Implemented Web Services Development using Apache-Axis.
* Good understanding of developing web services application using SOA architecture, Java/J2EE Design Patterns.
* Ability in testing the software with appropriate test cases.
* Analysis and preparation of System Requirement Document and Design documents.
* Discussions with clients on customizing existing product.
* Integration of new modules with existing application.
* **Environment**: Java, JSF, Web sphere, WSAD, Teradata, JSP, Servlets Jax WS, SoapUI, Test cases.