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AI-generated content may be incorrect.Sai Sumanth  
Senior Software Developer

### Professional Summary

* Experienced in building scalable and high-performance backend services using Java, Spring Boot, Microservices, RESTful APIs, and Kafka for event-driven architecture, ensuring efficient communication between distributed systems.
* Developed secure and optimized APIs with OAuth authentication, role-based access controls, and encryption mechanisms, maintaining compliance with security standards.
* Proficient in designing responsive and dynamic user interfaces using Angular, TypeScript, JavaScript, Thymeleaf, HTML, CSS, and jQuery, enhancing user experience and accessibility.
* Strong expertise in database management, working with MySQL, Oracle, Cassandra, and Redis, optimizing queries, indexing, and schema design for efficient data retrieval and transaction processing.
* Hands-on experience with AWS services, including EC2, RDS, Lambda, SNS, API Gateway, and CloudWatch, for deploying and maintaining cloud-native applications.
* Implemented CI/CD pipelines using Jenkins, Docker, Kubernetes, Maven, and AWS CodePipeline, automating build, testing, and deployment processes to ensure rapid and reliable software releases.
* Extensive experience in unit and integration testing with JUnit, Mockito, and Selenium, improving code quality and system stability while ensuring high test coverage.
* Optimized system performance by improving SQL query efficiency, implementing caching mechanisms with Redis, and monitoring application health using Splunk and CloudWatch.
* Developed and maintained core banking and hotel management modules, including transaction processing, account management, loan services, hotel reservations, pricing engines, and inventory tracking.
* Proven ability to work in Agile/Scrum teams, collaborating with mobile developers, DevOps engineers, and business analysts to deliver efficient and high-quality software solutions.

### Technical Skills

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| **Category** | **Technologies** |
| **Programming Languages** | Java, TypeScript, JavaScript, PL/SQL |
| **Backend Technologies** | Spring Boot, Microservices, REST API, OAuth, Hibernate, Struts3, Spring Cloud, Spring Data JPA |
| **Frontend Technologies** | Angular, Thymeleaf, HTML, CSS, JavaScript, jQuery, JSP, JSTL, XSL, SASS |
| **Databases** | MySQL, Oracle, MongoDB, Redis |
| **Cloud & DevOps** | AWS (EC2, RDS, Lambda, SNS, API Gateway, CloudWatch), Docker, Kubernetes, Jenkins, Maven, Gradle |
| **Messaging & Event-Driven Systems** | Kafka, SNS |
| **Testing & Code Quality** | JUnit, Mockito, Selenium, Log4j, SonarQube |
| **Version Control & CI/CD** | Git, Jenkins, Docker, Kubernetes, AWS CodePipeline, Maven, Gradle |
| **Monitoring & Logging** | Splunk, CloudWatch |
| **Project Management & Agile** | Jira, Agile/Scrum, Test Driven Development |

### Professional Experience

**Software Developer** | USAA | April 2024 – Present

* Developed cloud-native solutions using AWS services like EC2, RDS, Lambda, API Gateway, and S3, ensuring high availability, fault tolerance, and secure data storage.
* Integrated DocuSign for secure document management, replacing legacy processes.
* Built and optimized backend services for fulfillment of checking and savings accounts, improving operational efficiency.
* Implemented Kafka-based retry mechanisms for failed processes, enabling automatic recovery by fetching data from the database and reprocessing transactions.
* Improved form validations and error handling in account setup flows, reducing user input errors and backend failures.
* Enhanced UI performance by optimizing Angular components, leading to better user experience and increased engagement.
* Worked with UX designers to apply modern UI/UX best practices, ensuring consistency across the platform.
* Designed and optimized RESTful APIs using Spring Boot and Spring MVC, implementing best practices for security, rate limiting, and versioning.
* Implemented logging and monitoring using ELK stack (Elasticsearch, Logstash, and Kibana) and AWS CloudWatch for real-time application insights.
* Developed and integrated CI/CD pipelines using Jenkins, Docker, and Kubernetes, reducing deployment time and streamlining release management.
* Optimized SQL queries and database schemas, reducing query execution times and improving data retrieval speeds.
* Created a proof of concept (POC) for training new hires on AWS modules, REST API with Go Lambda, Step Functions, and observability using AWS resources and ELK for API response tracking.

**Software Engineer** | Publicis Sapient | June 2023 – April 2024

* Designed and implemented layered architecture with clear separation of concerns using design patterns like Singleton, Factory, and Strategy to improve code readability, modularity, and maintainability.
* Implemented Hibernate ORM to automate database schema generation, creating mapping files to transform Java classes into database tables, improving data persistence and reducing manual effort.
* Worked closely with product and design teams, translating business requirements into technical specifications, driving feature development, and ensuring alignment with user needs and market demands.
* Utilized Kafka to facilitate real-time data streaming, improving system responsiveness and supporting event-driven architecture for asynchronous processing.
* Automated deployments using GitLab CI/CD, Docker, and Kubernetes, reducing manual intervention and accelerating feature releases.
* Developed custom alerting mechanisms using AWS SNS to notify users about billing updates, unusual account activity, and spending anomalies.
* Implemented React hooks (useState, useEffect, useContext) to manage state efficiently, reducing unnecessary re-renders and improving application performance.
* Implemented real-time updates using WebSockets for transaction tracking and fraud alerts, ensuring users receive instant notifications.
* Enhanced security by applying IAM policies to enforce role-based access controls, ensuring compliance with industry security standards.

**Software Engineer** | **Arvest Bank** | February 2021 – December 2022

* Developed backend services using Spring Boot to manage customer accounts and transaction histories, leveraging AWS EC2 for scalable compute resources to ensure high availability and handle increasing mobile app traffic.
* Created and exposed RESTful APIs for mobile banking features (balance retrieval, transaction history, loan processing), enabling seamless communication between backend services and mobile platforms (iOS/Android).
* Integrated Amazon SNS to enable real-time push notifications, delivering instant alerts on transactions, balance updates, and other critical activities, enhancing customer engagement.
* Designed and implemented backend systems for administrative functions, enabling bank employees to manage accounts, view transaction histories, and process loan applications, improving internal efficiency and reducing response times.
* Utilized AWS RDS for relational data storage, ensuring data availability, durability, and performance with multi-AZ deployments for fault tolerance during peak transaction volumes.
* Optimized SQL queries and database structures for Oracle and MySQL, improving transaction processing speeds and response times to ensure quick access to account information and transaction history.
* Leveraged Kafka for real-time data streaming, enabling timely updates and processing of transactional data across multiple banking systems, improving system performance and supporting high-volume transactions.
* Implemented AWS Lambda for serverless transaction processing, automating critical banking workflows, reducing infrastructure management overhead, and ensuring scalability during high transaction volumes.
* Exposed backend services through AWS API Gateway, securing APIs and managing traffic for mobile banking apps, ensuring authenticated requests and optimized performance.
* Applied Amazon CloudWatch for end-to-end monitoring, proactively identifying system issues and setting up alerts to ensure minimal downtime and optimize operational efficiency.
* Streamlined transaction processing workflows by integrating Kafka for event-driven architecture, enabling asynchronous processing of real-time banking data, reducing system latency.

**Software Developer** | **OYO Rooms** | December 2019 – January 2021

* Implemented backend services using Spring Boot to manage hotel profiles, update room statuses, process data for reports, and handle the operational flow of hotel properties.
* Developed the interface for hotel owners and managers to manage property listings, update room availability, set dynamic pricing, and track bookings via a user-friendly Angular front-end.
* Integrated RESTful APIs with Spring Data JPA to manage hotel information, including room inventory, guest bookings, and pricing models, ensuring smooth interaction with the front-end interface.
* Worked on front-end development using TypeScript and Angular to design and implement dynamic pages that allow hotel managers to update room availability, pricing, and manage guest reservations.
* Assisted in creating and optimizing UI components with HTML5, CSS3, and SASS, ensuring responsive and mobile-first designs for hotel management dashboards and guest-facing pages.
* Developed interactive, real-time interfaces by integrating WebSocket for immediate updates on room status changes and guest requests, providing a seamless experience for hotel staff.
* Integrated secure user login functionality using OAuth 2.0, ensuring safe and scalable authentication for hotel owners, managers, and guests with token-based session management.
* Utilized Thymeleaf to dynamically render data-driven pages, displaying real-time room availability, booking status, and pricing details within the management portal.
* Contributed to unit testing and Test-Driven Development (TDD) with JUnit and Mockito, ensuring robust backend services and reducing bugs by creating tests for core features such as booking handling, payment processing, and room availability.
* Conducted integration testing using JUnit and Spring Test to ensure seamless interaction between backend services, databases, and front-end components, improving overall system reliability and stability.
* Assisted in enhancing the UI/UX for hotel managers, focusing on streamlining workflows for room updates, pricing adjustments, and booking management, improving operational efficiency.
* Contributed to continuous deployment by working with Docker for containerization and Jenkins for automating deployment, ensuring smooth and frequent updates to the application.

**Junior Software Engineer** | **Idea** | October 2017 – November 2019

* Assisted in the development and maintenance of customer management systems, utilizing Struts3 as the MVC framework and Oracle for relational database management.
* Contributed to building REST APIs for mobile application integration, enabling seamless communication with backend systems through Spring Boot and Spring Data JPA.
* Developed XML-based data transformation pipelines to parse and process subscription and billing data, ensuring consistency using XSL and JAXB for data mapping.
* Utilized Redis for in-memory caching to optimize the performance of frequently accessed customer data, reducing database load and improving response times.
* Worked with the team to implement a backend service for real-time subscription management and updates using MySQL, Spring Data JPA, and Hibernate for efficient data querying.
* Supported the front-end development of dynamic pages using JSP, JSTL, and JavaScript to display user subscription details and service plans interactively.
* Assisted in optimizing SQL queries to improve the performance of the subscription management system, working with Oracle databases for high-volume transactional operations.
* Contributed to the integration of Jenkins for continuous integration and Maven for build automation, ensuring efficient code integration and release management.
* Developed unit and integration tests with JUnit and Mockito to ensure code stability and maintainability, reducing post-deployment defects.
* Assisted in configuring Docker for containerization, enabling efficient deployment and scaling of services across different environments.

### Education

Clark University, Worcester, USA – *Master’s*

Lovely Professional University – *Bachelor’s*