Rakesh Kuruva

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# PROFESSIONAL SUMMARY

* Experienced Java Full Stack Developer with over 5 years in Agile testing methodologies, automated test frameworks, and overseeing the full software development lifecycle (SDLC).
* Skilled in creating scalable applications using Java 8/11/17, Spring Boot, Hibernate, and Node.js, applying event-driven design and microservices architecture for enhanced performance.
* Expert in frontend development using modern technologies such as React and Angular, developing responsive, dynamic user interfaces, and ensuring seamless user experiences through optimized performance and state management techniques like Redux.
* Skilled in crafting and optimizing SQL and PL/SQL queries for databases such as Oracle, MySQL, and PostgreSQL, and utilizing Kafka for real-time data synchronization to ensure seamless communication and data consistency.
* Proficient in deploying and managing applications on AWS cloud services (EC2, S3, Lambda, ECS, CloudFormation) and using Kubernetes for container orchestration, CI/CD pipelines with Jenkins, and automated deployment.
* Strong background in middleware technologies such as Apache Kafka and RabbitMQ, focusing on real-time data streaming, event-driven architectures, and efficient inter-service communication.
* Experience in building APIs and developing server-side applications with Node.js to enhance back-end performance and optimize client-server interactions.
* Deep expertise in test-driven development (TDD) and behavior-driven development (BDD) with tools like Cucumber, Selenium, and JUnit, providing thorough test coverage for both front-end (Angular, React) and back-end (Java, RESTful services) applications.
* Competent in using development environments like IntelliJ and Eclipse for coding and debugging, alongside tools like JIRA and Git/GitHub for project management and version control.
* Proven track record of delivering robust, high-quality software solutions that meet complex business requirements, improving stability, scalability, and user experience through modern development practices and technologies.

# EDUCATION

## University Of Missouri – Kansas City, MO *Dec 2023*

Master of Science in Computer Science- **GPA: 3.5**

## Lovely Professional University – Punjab, India *May 2019*

Bachelors in Electronics and Communication Engineering

**CERTIFICATION**

* Certified AWS Developer – Associate Developer.
* Java Professional Certification from HackerRank.

# TECHNICAL SKILLS

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| **Programming & API** | Java, JavaScript, TypeScript, Shell scripting, REST API Development |
| **Frameworks** | Spring, Spring Boot, Hibernate, JPA |
| **Software Testing** | JUnit, Mockito, SonarQube, Cucumber, Selenium, SOAP UI and Postman. |
| **Web Development** | HTML, CSS, Bootstrap, React 16, Angular (v8, v12) |
| **Databases** | Oracle, MySQL, MongoDB, PostgreSQL, SQL Server. |
| **Cloud Technologies** | AWS (S3, EC2, Lambda, API Gateway, CloudWatch, SNS, AWS Cloud Formation) |
| **System Internals and Automation** | Linux/Unix, Jenkins, Maven, Docker, Git, Kubernetes. |
| **Project Management and IDE’s** | JIRA, GitHub, IntelliJ, Eclipse |
| **Message Brokers** | Kafka, RabbitMQ. |

**EXPERIENCE**

## Acentra Health – Rockville, MD

*Software Engineer* ***Jun 2023 – Present***

* Engineered a microservice for processing healthcare claims, focusing on real-time data submissions, validation, and payment processing using Java 11, Spring Boot, React, and Kafka for event-driven communication.
* Developed a secure and scalable patient records management system using Spring Boot for backend services and React for a responsive frontend, ensuring compliance with healthcare regulations.
* Developed dynamic and responsive user interfaces using React 16 for the patient records management system, employing Redux for state management to ensure seamless performance across complex user interactions.
* Implemented automated testing frameworks using Selenium, enhancing test coverage and efficiency. Developed automated REST API tests using Postman.
* Advanced CI/CD practices using Jenkins, allowing for continuous integration and deployment that minimized downtime and optimized delivery cycles through blue-green deployment strategies.
* Employed services like EC2 to run the applications, S3 for storage, Lambda for event-driven functions, and ECS for managing containers.
* Utilized AWS CloudFormation for deploying and managing cloud services, facilitating seamless integration with existing systems and improving cloud resource management.
* Utilized PostgreSQL as a non-production database to support backend services, wrote complex SQL queries and PL/SQL scripts for data manipulation and retrieval, enhancing data management capabilities for healthcare claims processing and patient records systems.
* Actively participated in daily scrums, sprint planning, and retrospective meetings to ensure alignment with project goals and continuous improvement. Utilized JIRA for sprint tracking and issue resolution.
* Utilized SonarQube to continuously analyze and improve code quality, identifying and addressing code smells and technical debt, which contributed to maintaining high code maintainability and reliability standards.

**Environment:** Java 11, Spring Boot 2.7, Spring MVC, Spring Security, React, Kafka, Redux, Selenium, REST API, Postman, Jenkins, EC2, S3, Lambda, ECS, AWS CloudFormation, PostgreSQL, SQL, JIRA, SonarQube, Agile methodologies.

## Capgemini Technology Services India

*Java Full Stack Developer* ***Jan 2019 – Aug 2022***

## Client: NBC Universal Media

* Developed a Content Management System (CMS) to manage digital content using Java 8 Spring Boot, and Angular 12, which enhanced the efficiency of broadcast scheduling and rights management.
* Designed responsive automation suites for Angular-based UI and API layers, significantly reducing manual testing efforts and accelerating release cycles for enhanced productivity.
* Employed Angular 12 to create robust, scalable components, implementing lifecycle methods to enhance component initialization, rendering, and data-binding efficiencies, thus optimizing web application performance and user experience.
* Built user-friendly interfaces using Angular 12, making managing and updating content easier and faster, which improved how teams work and reduced the time needed for tasks.
* Created and maintained secure RESTful services and OAuth2.0; performed extensive manual testing using advanced features of Postman.
* Utilized AWS services like AWS Elastic Beanstalk and Lambda functions for building scalability and ensuring that applications are up all the time, managed with AWS CloudFormation.
* Developed and optimized SQL queries and PL/SQL scripts for database interaction, ensuring efficient data retrieval and manipulation, which significantly improved the application's performance and reliability.
* Implemented real-time data synchronization using Kafka, ensuring that updates to broadcast schedules and content availability were instantaneously reflected across all platforms, crucial during live events.
* Orchestrated Docker containers using ECS, enhancing the deployment and scalability of applications within cloud environments.
* Performed comprehensive system testing and debugging, leading efforts that sustained high software quality with minimized post-deployment issues.
* Configured Jenkins to automate daily regression tests and managed GitHub repositories to streamline version control processes.
* Mentored junior developers for skill development in Java, Spring, and Agile methodologies using project participation under guidance.
* Utilized Eclipse as the primary IDE and JIRA for bug and issue tracking.

**Environment:** Java 8, Spring Boot, Hibernate, Microservices, Angular 12, RESTful services, OAuth2.0, Postman, AWS Elastic Beanstalk, AWS Lambda, AWS CloudFormation, Oracle, PL/SQL, Maven, Node.js, Kafka, Docker, ECS, Jenkins, GitHub, Eclipse, JIRA.

## Capgemini Technology Services India

*Software Engineer Intern* ***Sep 2018 – Jan 2019***

* Developed web applications using Angular 8, enhancing UI functionality and features while working alongside senior developers to ensure best practices and innovative solutions.
* Contributed to Agile development cycles, including sprint planning and reviews, which improved team productivity and project visibility.
* Collaborated on creating dynamic and responsive user interfaces using Angular components and modules, improving user experience and front-end performance.
* Participated in integrating Angular with RESTful APIs and collaborated on scalable cloud solutions using AWS, gaining hands-on experience in cloud deployments and service management.

**Environment:** Java, Spring Framework, Hibernate, JPA, Angular, React, JavaScript, TypeScript, HTML5, CSS3, Microservices, PostgreSQL, Git, GitHub, JUnit, IntelliJ, JIRA.

# PROJECTS

## Pecunia Bank Application:

* Created and developed a user-friendly interface with Angular 8 for managing accounts, and reviewing transaction history, loan applications, and other features.
* Developed user interfaces with React and Angular for seamless user experiences in banking operations.
* Utilized Java backend development with Java Beans, JPA (Java Persistence API), and Spring Framework to ensure secure and scalable services.
* Implemented real-time transaction data streams with Kafka, improving the responsiveness and reliability of banking operations.
* Utilized AWS services such as Amazon RDS in handling strong databases, and AWS Elastic Beanstalk in deploying applications elastically to ensure system availability and good performance.
* Designed and deployed microservices architecture for various banking modules to improve modularity and easy maintenance.

## CIF Integration Tool:

* Developed a scalable web tool using Spring Boot for managing complex data transactions among merged databases, ensuring data consistency and integrity.
* Created a flexible and effective layer of APIs by using RESTful APIs to improve interaction and manipulation of data on various platforms, enabling proper integration and user engagement.
* Improved test automation through integration with GitLab and CI/CD pipelines, facilitating the entire development process and helping reduce defects in software.
* Utilized AWS CloudFormation and Terraform for managing and automating cloud resources, ensuring efficient deployment and operational scalability.
* Wrote detail-oriented documentation with technical specifications, system architectures, and sequence diagrams in a manner that makes the tool lucid for maintenance.
* Implemented RabbitMQ for message queuing to efficiently handle data synchronization with modern messaging and event streaming requirements.