Rakesh Kuruva

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# PROFESSIONAL SUMMARY

* Seasoned Full Stack Developer with 5+ years of experience in Agile development, implementing automated testing frameworks and managing the end-to-end software development lifecycle (SDLC).
* Expertise in developing scalable applications using Angular (v12+), React, Node.js, Fastify, NestJS, Java 8/11/17, Spring Boot, and Hibernate, applying event-driven design and microservices architecture for enhanced performance.
* Skilled in modern frontend technologies, including React and Angular, developing responsive, dynamic user interfaces with optimized performance and state management using NgRx and Redux.
* Proficient in crafting and optimizing SQL and PL/SQL queries for databases such as PostgreSQL, Oracle, and MySQL, and leveraging Kafka for real-time data synchronization and seamless inter-service communication.
* Expertise in deploying and managing applications on AWS services like EC2, S3, Lambda, Elastic Beanstalk, CloudFormation, and CloudWatch, alongside Kubernetes for container orchestration and CI/CD pipelines with Jenkins.
* Hands-on experience in integrating workflows using Camunda DMN, enabling role-based access control and dynamic UI configurations for enterprise applications.
* Strong background in middleware technologies like Apache Kafka and RabbitMQ, focusing on real-time data streaming and event-driven architecture.
* Comprehensive knowledge in automated testing, including unit, functional, and end-to-end test cases using tools such as Cypress, Jest, and Cucumber, ensuring robust application quality.
* Proven ability in managing production deployments, providing on-call support, and resolving critical incidents, ensuring service reliability and business continuity.
* Competent in development environments like VS Code, IntelliJ, and Eclipse, along with tools like JIRA, Git, and GitHub for version control and project management.
* Demonstrated success in migrating workflows from Salesforce to in-house platforms, ensuring seamless data consistency and operational transition.
* Proven track record of delivering 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 & Scripting** | Java, JavaScript, TypeScript, Shell scripting, Node.js |
| **Frameworks** | Spring, Spring Boot, Fastify, Express.js, Hibernate, JPA |
| **Web Development** | HTML, CSS, Bootstrap, React 16, Angular (v12+) |
| **API Development and Testing** | REST API, Postman, Swagger |
| **Software Testing** | JUnit, Jest, Cypress, SonarQube, Cucumber, Selenium. |
| **Databases** | Oracle, MySQL, MongoDB, PostgreSQL. |
| **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** | GitHub, IntelliJ, Eclipse |
| **Message Brokers** | Kafka, RabbitMQ. |
| **Agile & Collaboration** | JIRA, Agile Scrum methodologies |

**EXPERIENCE**

## Capital One – Richmond, VA

## *Senior Software Engineer Sept 2024 – Present*

* Developed and maintained user interfaces using Angular 18, focusing on dynamic rendering and responsiveness tailored to diverse user roles and permissions.
* Implemented backend services using Node.js and Fastify, creating high-performance, lightweight APIs for efficient data handling.
* Leveraged NgRx store for state management, enhancing performance and reducing code complexity and consistency across application layers.
* Collaborated with the team for seamless REST API integrations and backend logic, improving system modularity and maintainability.
* Migrated business workflows and data from Salesforce to an in-house project, ensuring data consistency and seamless user transition.
* Defined and implemented business rules with Camunda DMN, enabling role-based access control and dynamic field editability based on workflow states.
* Designed and executed comprehensive test cases using Cypress, Jest, and Cucumber for unit, functional, and end-to-end testing, ensuring application reliability and reducing regression risks.
* Utilized SonarQube to analyze code quality, identify technical debt, and address vulnerabilities, improving maintainability and security.
* Worked with PostgreSQL to write complex queries for efficient data retrieval and storage operations.
* Used tools like Postman for API testing, VS Code for development, and Jenkins for CI/CD pipelines to streamline deployment processes.
* Actively participated in production deployments, ensuring seamless rollouts and mitigating risks through rigorous testing and validation.
* Integrated and optimized backend services with AWS technologies, leveraging EC2 for scalable compute capacity, S3 for storage, Lambda functions for event-driven processing, Elastic Beanstalk for deployment, and CloudWatch for monitoring and logging.
* Provided on-call support for production issues, performing root cause analysis and implementing timely resolutions to ensure service reliability.
* Participated in Agile ceremonies, including sprint planning, stand-ups, and retrospectives, ensuring smooth project delivery.

**Environment:** Angular 18, Node.js, Fastify, JavaScript, TypeScript, NgRx, Camunda DMN, REST API, Cypress, Jest, Cucumber, PostgreSQL, Postman, VS Code, AWS (EC2, S3, Lambda, Elastic Beanstalk, CloudWatch), Salesforce Migration.

## Acentra Health – Rockville, MD

*Software Engineer* ***Jun 2023 – Aug 2024***

* 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.
* 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.