Sanjana Vatsavai Java Full Stack Developer

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PROFESSIONAL PROFILE

- **Java Full Stack Developer with around 4 years of experience** in designing, developing, and deploying **scalable web applications and enterprise solutions** using **Java, Spring Boot, React.js, Angular, and Microservices** in Agile environments.
- **Proficient in backend and frontend development**, with expertise in **RESTful APIs, GraphQL, SQL & NoSQL databases (MySQL, PostgreSQL, MongoDB), and UI frameworks like Bootstrap and Material-UI** to build dynamic, responsive applications.
- **Skilled in DevOps and cloud technologies**, leveraging **AWS (EC2, S3, Lambda), Azure, and Docker/Kubernetes** to optimize deployment, enhance security, and ensure high availability of applications.
- **Strong foundation in data structures, algorithms, and performance optimization**, applying **multi-threading, caching strategies, and load balancing** to improve system efficiency and scalability.
- **Expertise in full-stack development, microservices architecture, API integrations, and database management**, ensuring **high-performance, secure, and maintainable software solutions**.

SKILLS

Programming & Frameworks: Java, Spring Boot, Spring MVC, Hibernate, JPA, Java EE, Microservices Architecture, RESTful APIs
Web Development & Frontend: JavaScript, TypeScript, React.js, Angular, JSP, Servlets
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), GCP (Cloud Functions, Firebase), Docker, Kubernetes, Terraform, CI/CD
Databases & Data Management: MySQL, PostgreSQL, Oracle, MongoDB, Redis, JDBC, JPA, Hibernate Query Language (HQL)
Software Development & Tools: Git, GitHub, GitLab, Maven, Gradle, IntelliJ IDEA, Eclipse, VS Code
Security & API Management: OAuth2, JWT, Role-Based Access Control (RBAC), API Gateway, Postman, Swagger
Testing & Performance Optimization: JUnit, Mockito, Selenium, Load Testing, Memory Profiling, JVM Optimization
Agile & Collaboration: Agile (Scrum/Kanban), JIRA, Confluence, Code Reviews, Peer Programming

PROFESSIONAL EXPERIENCE

Full Stack Developer, IBM   Jan 2024 – Present | Remote, USA

- **Designed** and deployed **high-performance, cloud-native applications** on **AWS and Azure**, leveraging **serverless computing (AWS Lambda) and containerization (Docker, Kubernetes)** to **reduce infrastructure costs by 20%** while improving scalability.
- **Enhanced** API security and authentication using **OAuth 2.0, JWT, and API Gateway**, implementing **role-based access controls (RBAC)** to safeguard **100,000+ daily transactions** from unauthorized access and potential cyber threats.
- **Refactored** legacy monolithic applications into **microservices architecture**, using **Spring Cloud, Eureka, and API gateways**, boosting application scalability by **35%** and reducing deployment risks through modularized development.
- **Optimized API request handling** with **asynchronous processing using CompletableFuture and WebFlux**, increasing system throughput by **35%** and enhancing real-time responsiveness.
- **Integrated centralized logging, monitoring, and alerting solutions** using **Spring Boot Actuator, ELK Stack (Elasticsearch, Logstash, Kibana), and Prometheus**, improving system observability, reducing downtime, and accelerating issue resolution.
- **Championed** Agile best practices, facilitating **daily stand-ups, sprint planning, and retrospective meetings**, increasing team productivity by **25%**, and ensuring efficient collaboration between **developers, product owners, and QA engineers**.

Full Stack Developer, HCLTech   Sep 2019 – Jul 2022 | India

- **Engineered** and deployed scalable, microservices-based applications using **Java, Spring Boot, and Hibernate**, optimizing system response time by **30%** and improving fault tolerance through **circuit breaker patterns**.
- **Developed** and optimized **RESTful APIs**, handling **10,000+ daily requests**, improving data transfer efficiency and enabling seamless cross-platform integration between **frontend, mobile apps, and third-party services**.
- **Implemented** multithreading and performance tuning strategies, leveraging **executor services, caching mechanisms (Redis), and database indexing**, reducing application latency by **25%** and enhancing real-time processing.
- **Constructed** and maintained relational databases (**PostgreSQL, MySQL**), optimizing complex queries using **stored procedures, Indexing, and partitioning**, leading to a **40% improvement in data retrieval efficiency**.
- **Automated** CI/CD pipelines using **Jenkins, Docker, and Kubernetes**, reducing deployment time by **50%** and minimizing manual intervention, ensuring faster, error-free software releases.
- **Conducted** comprehensive **unit and integration testing** using **JUnit, Mockito, and Postman**, achieving a **35% increase in defect detection rates** and enhancing software reliability.
- **Led** a team of **5 developers**, mentoring junior engineers, conducting peer code reviews, and driving Agile-based sprint planning to ensure timely delivery of high-quality software.

EDUCATION

George Mason University   Aug 2022 – May 2024 | Fairfax, VA
Master of Science in Computer Science

GokaRaju RangaRaju Institute of Technology   Jul 2016 – Sep 2020 | Hyderabad, India
Bachelor of Technology in Computer Science

CERTIFICATIONS

Microsoft Certified Azure Fundamentals.
Java Automated API Testing with REST Assured
JavaScript profession Certificate by Mozilla
Database Design and DataBase Programming by Oracle academy