# Sujay Reddy

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## SUMMARY

Software Engineer with over 4 years of experience in full stack development and system performance optimization. Expertise in Java, Spring Boot, C++, and SQL, with a strong foundation in algorithm design and database management. Demonstrated success in building scalable web platforms and simulation engines, reducing API latency by 70% and optimizing query performance by 40%. Skilled in designing secure authentication workflows, automating CI/CD pipelines, and engineering fault-tolerant systems that improve operational efficiency.

## WORK EXPERIENCE

**Walmart**                                                                                                  Mar 2024 – Present
*Software Engineer*                                                                                              *Austin, Texas*
- Migrated SOAP services to secure RESTful Spring Boot APIs, reducing latency by 70% and increasing throughput by 30%.
- Led security audit across 8 critical applications, identifying and mitigating vulnerabilities to reduce security risks by 80%.
- Automated 30+ integration and UI tests using Python, Appium, and WinAppDriver, decreasing manual QA by 90%.
- Optimized CI/CD pipelines with Docker and Jenkins, cutting production bugs by 60% and accelerating releases by 25%.
- Developed containerized microservices enabling consistent deployments across environments, reducing configuration issues by 70%.

**Cognizant**                                                                                                Aug 2022 – Aug 2023
*Software Engineer*                                                                                          *Hyderabad, India*
- Built predictive invoice processing services using Java and SQL, improving financial forecasting accuracy by 28%.
- Implemented automated data validation pipelines with Apache Kafka, reducing invoice processing errors by 42% and cutting manual reconciliation time from 6 hours to 45 minutes.
- Containerized backend systems with Docker, reducing environment setup time by 50% and eliminating configuration drift.
- Optimized data API refresh from 4 hours to near real time for 5M+ daily transactions.
- Strengthened Jenkins deployment workflows, improving reliability and reducing rollback incidents by 35%.

**Accenture**                                                                                                May 2021 – Jun 2022
*Software Engineer – Intern*                                                                                 *Hyderabad, India*
- Developed backend features using Java Servlets, JDBC, and MySQL supporting 100K+ monthly users.
- Automated data validation with Python and Bash, reducing manual QA workload by 45%.
- Optimized SQL queries and database indexes, improving API response time by 35% and reducing database load by 40%.
- Enabled zero-downtime releases through blue green deployment strategies, supporting multiple weekly production deployments.

## CERTIFICATIONS

AWS Certified Developer

## PROJECTS

Freelancing Portal Management – Full Stack Development                                                         May 2025 – Jul 2025
- Designed a full-stack freelancing platform with secure authentication, supporting 500+ concurrent user sessions.
- Optimized database CRUD operations and UI responsiveness, reducing page load latency by 40%.
- Implemented job bidding workflows and profile management, increasing user engagement metrics by 25%.

OS Scheduling Algorithms – C++ Simulation Engine                                                               May 2025 – Jul 2025
- Developed a modular simulation engine in C++ to visualize CPU scheduling algorithms like FCFS, SJF, and Round Robin.
- Analyzed process execution metrics, optimizing throughput calculations and reducing average wait time by 30%.
- Simulated complex process management scenarios to evaluate algorithm efficiency and system resource utilization.

## SKILLS

**Backend & Systems:** Java, Spring Boot, C++, C, Spring Security, REST APIs, Microservices, JDBC, Hibernate, JPA
**DevOps & Cloud:** Linux, Bash, Docker, Kubernetes, Jenkins, GitHub Actions, AWS (Lambda, EC2, S3, RDS), CI/CD
**Data & Databases:** MySQL, PostgreSQL, Snowflake, SQL Optimization, Database Design, Query Performance Tuning
**Programming Languages:** Python, Java, C++, SQL, Bash Scripting
**Caching & Messaging:** Redis, Kafka, RabbitMQ, Event-driven Architecture
**Testing & Quality:** JUnit, Mockito, Appium, WinAppDriver, Postman, Integration Testing, Unit Testing
**Monitoring & Security:** ELK Stack, Grafana, Prometheus, CloudWatch, OAuth 2.0, JWT, API Security

## EDUCATION

**University of Central Missouri**                                                                            Warrensburg, MO
*Master of Science in Computer Science*                                                                     *Aug 2023 – May 2025*