Sai Lohith Panthangi

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Professional Summary

Software Engineer with 3+ years of experience designing and delivering **scalable web applications** in the **EdTech** and **enterprise domains**, with proven impact at **Amplify** and **Verizon**. Skilled in building responsive, user-centric interfaces using **React.js with TypeScript**, **HTML/CSS**, and **Bootstrap**, and developing high-performance backend services with **Java**, **Spring Boot**, **PostgreSQL**, and **RESTful microservices**. Experienced in architecting **event-driven services** with **Apache Kafka**, enhancing performance with **Redis caching** and **PostgreSQL indexing**, and deploying secure, **cloud-native applications** on **AWS (EC2, S3, Lambda, DynamoDB, API Gateway)** with containerization via **Docker** and **Kubernetes**. Refined software delivery by building **CI/CD pipelines** using **GitHub Actions** & **Jenkins**, improving release reliability and enforcing artifact quality with static code scans. Proficient in **Agile development** and **cross-functional collaboration**, consistently delivering **high-availability, secure systems** that enhance performance and minimize latency.

Experience

Amplify Education   **Feb 2025 – Present**
Software Engineer   *Remote, USA*
- Engineered scalable applications for Amplify's K–12 education platforms using **React.js, TypeScript, Spring Boot, and PostgreSQL**, delivering high-performance services adopted by **5,000+ schools nationwide**.
- Led migration of legacy mCLASS features into a unified Admin Portal, consolidating enrollment, assessment, and reporting workflows. Increased educator engagement by 25% through responsive UI and seamless data flows.
- Developed **RESTful microservices** with **Spring Boot** to support district-specific authentication workflows, enabling tailored **SSO integrations (Google, Clever, ClassLink)**. Improved login success rates and reduced support requests by 30%.
- Designed and deployed event-driven backend services on **AWS (Lambda, API Gateway, S3)** to support district-specific login flows and portal data services, achieving a 19% reduction in inter-service latency.
- Incorporated **Redis caching** into licensing and session workflows to optimize response times during peak FDOS loads, improving concurrent onboarding performance by 28%.
- Optimized database performance with **PostgreSQL indexing and query tuning**, reducing query latency by 40ms and accelerating roster ingestion by 22%.
- Automated CI/CD pipelines with **GitHub Actions and Jenkins**, cutting manual deployment effort by 65 minutes per release cycle and ensuring artifact integrity through static code scans.
- Collaborated cross-functionally **(Salesforce case management, Jira workflows, QA, Product)** to resolve onboarding and licensing issues, enabling efficient district launches and improving operational efficiency by 20%.

Verizon   **Sep 2020 – Jan 2023**
Software Engineer, Full Stack Developer   *Hyderabad, India*
- Enhanced enterprise-scale full-stack web solutions for Verizon's Canvas portal, supporting **1M+ monthly users**, using **React.js, Java 8, and Spring Boot microservices**. Ensured high availability (99.9% uptime) and improved scalability by 30%.
- Built responsive front-end interfaces with **React.js, Angular, HTML5 & CSS3**, boosting user engagement by 25% and achieving 98% cross-platform compatibility across devices.
- Streamlined server-side business logic and APIs with **Spring Boot, JSP, and JSTL**, reducing deployment cycles by 35% and enhancing application reliability by 40%.
- Implemented secure **event-driven services** with **Spring AOP and RESTful microservices** to support fraud detection and client verification, strengthening compliance workflows and minimizing verification delays by 20%.
- Deployed scalable and secure applications on **AWS (VPC, EC2, S3, CloudFront, DynamoDB, ELB)**, optimizing cloud infrastructure costs while maintaining performance SLAs.

Technical Skills

Programming Languages:	Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript, SQL
Web Technologies and Frameworks:	Spring Framework, Bootstrap, ReactJS, Angular, Spring Boot, ExpressJS
Authentication and Security:	OAuth 2.0, JWT, SSO
API Design and Documentation:	RESTful APIs, OpenAPI (Swagger)
AWS Services:	EC2, S3, ECS, Fargate, RDS, DynamoDB, Lambda, CloudFormation, API Gateway, CloudWatch
Serverless and Deployment Tools:	Serverless Framework, Jenkins
Containerization and Orchestration:	Docker, Kubernetes
Version Control & Project Tools:	Git, GitHub, Jira, Confluence, Salesforce
Testing & Automation:	JUnit, Selenium, QTest, Jest, React Testing Library
Databases and Servers:	MySQL, PostgreSQL, T-SQL, PL/SQL, MongoDB, Hibernate, JPA, JDBC, SOAP
Development Tools:	IntelliJ IDEA, VS Code, Eclipse, Jupyter Notebook, WordPress, Spyder
Additional Skills:	Peer Code Reviews, Team Collaboration, Sprint Planning, Agile (Scrum), CI/CD

Education

George Mason University   **Jan 2023 – Dec 2024**
*Master's in Computer Science, **CGPA: 3.93/4.0***   *Fairfax, Virginia, USA*
Sreenidhi Institute of Science and Technology   **May 2017 – Apr 2021**
*Bachelor of Technology in Computer Engineering, **CGPA: 3.88/4.0***   *Hyderabad, Telangana, India*

Technical Certifications

- **AWS Certified Developer - Associate** (Oct 2024 - Oct 2027).
- **AWS Certified Cloud Practitioner** (May 2024 - May 2027).