Sai Prudhivi

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SUMMARY

Experienced software developer with 3+ years of expertise in full-stack development, specializing in Java, React.js, AWS, SQL, Kafka, and Kubernetes. Proficient in implementing scalable solutions through Kubernetes and microservices. Optimizing performance through caching, leading to a <100ms response times for critical REST APIs.

EXPERIENCE

The University of Texas at Dallas   **Oct 2022 – Present**
Research Assistant   Dallas, TX
- Resolved critical functionality issues in 2 full-stack Java apps with Spring Boot, Spring MVC and Hibernate.
- Modernized legacy apps with Java 17, Spring Security, Maven, and Tomcat to improve performance by 10%.
- Optimized 5+ SQL queries for business reporting in Jaspersoft, resulting in a faster <500ms report generation.

Oracle   **Jun 2019 – Aug 2022**
Software Developer   Bangalore, India
- Developed performance-enhancing features with Java, Spring Web, and Ehcache, leading to a <100ms response.
- Implemented front-end features on 2 full-stack Java apps using React.js, Oracle JET, JavaScript, and TypeScript.
- Leveraged Kafka and Spark to process lead data, reducing wait times by up to 85% (from 2+ hrs to <15 mins).
- Employed Docker, Kubernetes and Helm charts for efficient CI/CD, achieving 40% faster deployment times.
- Migrated existing Spring REST APIs from WebLogic to 5 decoupled microservices utilizing Kubernetes pods.
- Incorporated Elastic search, Logstash, and Kibana (ELK) for real-time logs, Prometheus for API health check.

Samsung   **Jun 2011 – May 2013**
Student Trainee   Bangalore, India
- Enhanced logging speed by 10% in a real-time logging module for a C++ multi-core system using compression.

PROJECTS

Full stack e-commerce platform - AWS, Database Management Systems   **May 2023**
- Created the backend using AWS Lambda, Python, Django framework, and DynamoDB, <500ms response time.
- Adopted AWS Amplify to host React.js, Tailwind CSS front-end and Route 53 to integrate with a domain.

Movie recommendation system, Machine Learning   **May 2023**
- Designed a movie recommendation system in Python, compared 5 algorithms on the MovieLens 25M dataset.

EDUCATION

The University of Texas at Dallas   **Aug 2022 – May 2024**
Master of Science, Computer Science   Dallas, TX

National Institute of Technology Karnataka   **Aug 2015 – May 2019**
Bachelor of Technology, Electrical and Electronics Engineering   Mangalore, India

SKILLS & OTHER

- **Technical Skills:** Java, React.js, AWS, Node.js, Python, SQL, Kafka, Spark, Docker, Kubernetes, Jenkins
- **Leadership**: Managed a technical club (IET) consisting of 40+ students, yielding a 25% surge in student memberships. Led and facilitated strategic event planning, recruitment, and execution of 6 technical projects.
- **Awards**: Two-time recipient of the "OAL CRM Org" Award for demonstrating innovation, speed, and curiosity.