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Udayakumar Udaiappa

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Full-Stack Developer with 6+ years of experience in developing and deploying high-performance, scalable enterprise applications. Proficient in modular monolith, microservices, SPA, and micro-frontend architectures, and applying rigorous testing methods to ensure robust solution delivery. Skilled in cloud security and monitoring solutions on Azure and AWS.

Technical skills

- Java 17+, JavaScript/ NodeJS, TypeScript, Kafka, SQL, No SQL, Git, CI/CD, YAML, HTML, CSS
- Spring Boot, JPA, Hibernate, PostgreSQL, JUnit, React, Redux, RTL & Jest, Docker, DevOps, Azure, AWS
- Microservices, Distributed systems, Micro frontends, Application and Infrastructure security, Agile SDLC

Work experience

Senior Engineer – Product and Platform Engineering   Feb 2025 - Present
Intuit via Altimetrik   *Bangalore, Ind*

- Working with teams across payroll, tax, and accounting to understand the legacy system and build a data pipeline that migrates end-user data to the cloud, making the transition easier and improving the experience on the new system.

Specialist Programmer L2   Jan 2023 - Feb 2025
BP via Infosys   *London, UK*

- Developing a Digital Vaulting product, focusing on user-friendly access, auditing, and governance of sensitive data.
- Collaborated closely with product owners and developers to lead the re-architecture of the existing system.
- Achieved a **100% mitigation** of long-running timeout issues through the adoption of Azure Durable Functions.
- Streamlined development processes by migrating to a mono-repo, reducing complexity and **deployment times by 40%**.
- Designed a Backend-for-Frontend to securely store user access and refresh tokens, mitigating the **risk of XSS attack**.
- Automated CI/CD workflows using PR and merge triggers, enhancing operational **efficiency by 20%**, and integrated security scanning tools to proactively address vulnerabilities across the system.
- Implemented monitoring and utilization metrics, enabling efficient scaling of systems and databases, resulting in a **66% reduction** in yearly cloud billing costs.

Specialist Programmer L1   July 2022 - Dec 2022
BP via Infosys   *London, UK*

- Developed a real-time computer vision and edge computing-based customer analytics tool for a major UK retail chain.
- Designed a distributed system mapping each instance to a zone within a retail store, enabling parallel transmission of real-time data and **overcoming the 512kb/s data transfer limit** on MQTT.
- Built REST APIs using Java & Spring-boot on AWS Lambda, API Gateway, DynamoDB to fetch the ingested data from S3.
- Architected a real-time visualization frontend application using the WSS protocol and developed **a lightweight React component library** for creating interactive 2D layouts.

System Engineer Specialist   May 2019 - June 2022
Allstate via Infosys   *Bangalore, India*

- Designed and developed scalable microservices and RESTful APIs using Java and Spring Boot
- Created numerous maintainable UI widgets and upheld them within the UI core library, facilitating rapid feature implementation for other development team.
- Refactored the code to enhance the code base maintainability and reusability using **Sonarqube metrics**.
- Responsible for reviewing peers code and improved the overall **test case coverage to 95%.**
- Actively monitored various microservices using Splunk and Datadog, effectively identifying system bottlenecks and providing optimal solutions to enhance performance.

Education

Bachelor of Engineering   August 2015 - April 2019
Sona College of Technology   *Salem, India*

- Major in Computer Science and Engineering with **9.2/10 CGPA**.
- Academic Bronze medalist and recipient of the Best Outgoing Student award.