Sourav .

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OBJECTIVE

Software Development Engineer with a strong foundation in backend, specializing in scalable microservices and cloud-based applications. Seeking opportunities to apply expertise in Java, JavaScript, and cloud services to build efficient solutions.

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, SQL
Frameworks/Environments: Spring Boot, JUnit, Mockito, JAX-RS, Angular, React, Node.js, Playwright
DevOps: Docker, Kubernetes, Jenkins, CI/CD, AWS, Terraform
Other Tools: Hibernate, Git, MySQL, Agile, REST, Maven, Redis, Memcache, ELK stack, Pub-Sub frameworks
Certifications: AWS Cloud Practitioner ⬈, Data Structures & Algorithms (HackerRank) ⬈

EXPERIENCE

Software Development Engineer   Jan 2024 – Present
Canada Revenue Agency (Government of Canada)   *Toronto*

- Architected and developed RESTful APIs using Spring Boot to ensure scalable microservices.
- Achieved 90% test coverage with JUnit and Mockito, and conducted code reviews to ensure code stability.
- Integrated ELK stack for application logging and performance monitoring, enhancing system observability.
- Leveraged Redis for caching to reduce response times and improve scalability.
- Developed key frontend features using Angular and RxJS, focusing on internationalization (i18n), adhering to WCAG accessibility standards and provide an inclusive user experience.

Software Developer   July 2019 – Dec 2022
MathWorks Private Limited   *Bengaluru*

- Built and deployed a managerial oversight tool for tracking employee metrics, streamlining the evaluation process.
- Implemented REST APIs and JWT authentication for microservices in Spring. Achieved 80% code coverage using JUnit, dockerized the application, and deployed it on EC2 instances to ensure scalability and easy management.
- Optimized microservices with Redis caching and implemented Pub-Sub messaging to enhance real-time data processing and inter-service communication.
- Designed and developed a Baseline Generation Tool using Spring and Angular for, reducing manual test setup time by 25%, providing real-time progress tracking and detailed reports.

PROJECTS

Code Labeller | Demo   Jan 2023 – Sept 2023

- Built a code survey app with a React frontend and a Spring backend featuring REST APIs, JWT authentication, and MySQL integration via Hibernate. Applied Agile methodologies to ensure efficient delivery.
- Addressed 30% of code smells by applying design patterns and SOLID principles, reducing technical debt.
- Streamlined and automated deployment workflows using Jenkins CI/CD pipeline and Docker.
- Maintained 85% test coverage with JUnit and Jest, documented APIs with JavaDoc.

Trivia Game | Demo Video   June 2022 – Nov 2022

- Developed a multiplayer quiz game with React, Spring Boot, leveraging AWS services for real-time competition.
- Implemented DynamoDB Streams, SNS, and API Gateway to track leaderboard changes, automated question tagging with the GCP's NLP API optimizing performance, scalability and accurate categorization.

Course Alert | Demo Video   Jan 2022 – Oct 2022

- Built a course subscriptions tool featuring customized notifications using React for the frontend, Spring Boot for REST APIs, and MongoDB for data storage, utilized AWS Lambda and SNS for real-time notifications.
- Wrote deployment scripts using Terraform to provision cloud infrastructure (EC2 instances, RDS databases).

EDUCATION

Dalhousie University   Halifax
Master of Applied Computer Science, Grade: 4.25/4.3   *Jan 2023 – Apr 2024*

IIIT-Delhi   New Delhi
Computer Science and Engineering, Grade: 7.95/10   *July 2015 – Aug 2019*