Sourav Sourav

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TECHNICAL SKILLS

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

EXPERIENCE

Software Engineer   Jan 2024 – Present
Canada Revenue Agency   *Toronto*

- Architected and developed scalable microservices with Spring Boot, achieving 40% improvement in performance through optimized API architecture.
- Implemented event-driven architecture using Spring Boot, Kafka, achieving real-time inter-service communication.
- Implemented caching layers using Spring Cache with Redis, reducing redundant database calls.
- Achieved 90% test coverage with JUnit and Mockito, and conducted code reviews to ensure code stability.
- Developed key frontend features using Angular and RxJS, focusing on internationalization (i18n), adhering to WCAG accessibility standards and provide an inclusive user experience.
- Automated deployment pipelines using Jenkins and Docker, increasing release efficiency by 25%.

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

- Led the development of a managerial tracking tool, reducing manual reporting time by 50% using Spring Boot and Angular.
- Implemented REST APIs with SSO for microservices in Spring. Achieved 80% code coverage using JUnit and Mockito.
- Optimized microservices with Redis caching and Pub-Sub messaging, cutting response times by 30%.
- Streamlined deployment processes by containerizing applications using Docker and deploying on AWS EC2 instances.
- 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.
- Reduced technical debt, addressing 30% of code smells by applying design patterns and SOLID principles.
- Streamlined and automated deployment workflows using Jenkins CI/CD pipeline and Docker.
- Maintained 85% test coverage with JUnit and Jest, and documented APIs with JavaDoc.

Trivia Game | Demo Video   June 2022 – Nov 2022

- Developed a serverless multiplayer quiz game with React, Spring Boot, leveraging AWS services for real-time competition.
- Implemented real-time communication using WebSockets and Redis for seamless player interactions.
- Created a leaderboard microservice utilizing API Gateway, DynamoDB, and AWS SNS, supporting scalable updates to rankings during gameplay.
- Developed a dynamic question tagging system using GCP's (NLP) API, ensuring 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.
- Increased user engagement by integrating email and SMS notification systems with AWS SNS and Lambda.
- Wrote deployment scripts using Terraform to provision cloud infrastructure (EC2 instances, RDS databases).
- Conducted user testing sessions to refine the UX/UI design, improving customer satisfaction ratings by 20%.

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*