Lakshay Mittal

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Summary

Software Engineer with 2+ years of experience developing scalable and maintainable web applications using the MERN stack and Spring Boot. Proficient in full-stack development with a strong foundation in algorithms and data structures. Experienced in collaborative development workflows, comprehensive code reviews, Git-based version control, and agentic AI workflows. Strong analytical problem-solver with excellent technical communication and cross-functional teamwork abilities.

Skills

Programming & Markup Languages - Java, JavaScript/TypeScript, Python, C/C++, SQL, HTML/CSS

Cloud & Databases - AWS (EC2, Lambda, S3), GCP (Compute Engine, Google Storage, Dataproc), MySQL, PostgreSQL, MongoDB, Oracle, Firebase

Libraries & Frameworks - ReactJS, Redux, Bootstrap, ThreeJS, NodeJS, ExpressJS, Spring Boot, Hibernate

Tools & Technologies - Docker, Nginx, Jenkins, Postman, Git, Github, JIRA, Figma, AdobeXD, Drupal

Experience

Full Stack Developer | Cognizant   **Jan 2024 - Present | Remote, USA**

- Developed a dynamic front-end using React, enhancing user experience and boosting engagement by 10%.
- Built RESTful APIs using Node.js and Express.js, improving data exchange and reducing load times by 15%.
- Utilized Java and Spring Boot to create microservices that handle core business logic, improving scalability and maintainability of the system.
- Utilized Hibernate for Object-Relational Mapping (ORM) to streamline database interactions with MySQL. Designed a comprehensive database schema to effectively manage information and optimize data retrieval.
- Developed comprehensive unit and integration tests using Jest and Mocha, achieving 95% code coverage and enhancing application performance and reliability by 20%.

Software Engineer | Infosys   **Sept 2021 - Jun 2022 | India**

- Led the migration to AWS Lambda for critical event-driven services, optimizing cost-efficiency by reducing server reliance and enabling auto-scaling for dynamic workloads.
- Engineered a front-end state management solution using React's Context API and custom hooks to handle complex user workflows while improving component reusability and reducing code duplication.
- Developed high-performance RESTful APIs using Java and Spring Boot, enhancing service performance by 20%.
- Implemented distributed caching with AWS ElastiCache to reduce database load and increase API performance, achieving a 15% improvement in response times during peak traffic.
- Built a real-time notification system using WebSockets and integrated it with AWS Lambda and S3 for seamless, scalable notifications across the platform.

Full Stack Developer | Quadrant Televentures Ltd   **Jan 2021 - June 2021 | India**

- Designed and developed a dynamic customer data management dashboard that improved data accessibility by 30%.
- Led the implementation of RESTful APIs using Node.js for efficient back-end CRUD operations.
- Led the design of a continuous performance monitoring system with AWS CloudWatch, delivering real-time microservices metrics and automated anomaly alerts.

Education

San Francisco State University   Aug 2022 - Dec 2024
Master of Science, Computer Science   **GPA: 3.74/4.0**

Panjab University   Aug 2017 - June 2021
Bachelor of Engineering, Computer Science & Engineering   **GPA: 3.58/4.0**

Projects

HealthShare: AI-Enhanced Pandemic Data Repository | PostgreSQL, ReactJS, Spring Boot, NodeJS, ExpressJS, Llama, D3JS

- Developed an analytics platform containing 120K+ entries of healthcare professionals' experiences during COVID-19.
- Wrote serverless Spring Boot functions using AWS Lambda for data filtering. Integrated Llama language model for contextual analysis and natural language processing, and performed data transformation and modeling.
- Created an interactive visualization suite with D3JS, implementing custom dashboards and advanced filtering features.

GatorMart: A University Marketplace | MERN, AWS, Socket.IO, OAuth, WebRTC, CI/CD

- Developed a marketplace platform for SFSU students to connect, list, and sell products.
- Implemented robust user authentication using JWT and OAuth, including email verification during sign-up.
- Utilized WebRTC and Socket.IO to facilitate real-time video chat and messaging.