Mayank Modi

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Location: Bangalore, IN

PROFESSIONAL SUMMARY

Experienced full-stack developer with a proven track record in designing and developing scalable backend systems and web applications. Adept at creating efficient APIs, applying design patterns, and effectively managing databases. Possessing expertise in advanced Java, JavaScript frameworks, and modern cloud technologies. Dedicated to delivering high-quality solutions that meet client and end-user needs.

SKILLS SUMMARY

- **Backend**: Java, Python, Spring Boot, Quarkus, Microservices, Design patterns, OOP, NodeJS, Unit Testing, Kafka
- **Frontend**: HTML, CSS, Javascript, React, Angular
- **DevOps**: CI/CD, Kubernetes, Docker, Openshift, Jenkins, Git
- **Databases**: SQL, NoSQL, Cassandra DB, PostgreSQL, Elasticsearch, Redis, DynamoDB
- **Cloud**: AWS, Lambda, CloudFormation, EC2, S3, Active MQ, SNS, SQS, CloudWatch, RDS, API Gateway, MSK
- **Others**: Multi-Threading, Data Structures, Algorithms, Low-Level Design, High-Level Design, GraphQl, REST

EXPERIENCE

Delta Airlines Global Tech Hub — Bangalore
Software Developer (Full-time) — *May 2022 - Current*

- **Retail Offers Migration**: Led the migration of a complex monolithic service to containerized microservices on AWS, employing TDD, design patterns, and achieving 99% code coverage with **JUnit** and **mutation** testing. Services earned an A rating on SonarQube.
- **Enhanced Customer Experience**: Designed and developed critical features like Ecredit and Retain Seats using Java, Spring Boot, and Cassandra DB, reducing refund-related customer service calls. Deployed services using OpenShift & Jenkins pipelines.
- **Event-Driven Architecture with Kafka**: Developed Kafka-based **asynchronous** data pipelines for processing analytics and promotional offers, enabling efficient data storage in **Amazon Keyspaces** and enhancing custom discount creation.
- **Performance Optimization**: Improved system efficiency by implementing reactive programming and scaling to handle **400 transactions/second**. Enhanced performance through garbage collection tuning and vertical/horizontal scaling.
- **Testing and Collaboration**: Conducted comprehensive testing, including unit tests and SonarQube analysis. Coordinated with QA to create **350+ test cases**, minimizing post-release issues.
- **CI/CD and Monitoring**: Streamlined CI/CD pipelines with OpenShift and blue-green deployments, ensuring 99% application availability. Built **Dynatrace, CloudWatch** dashboards for TPS, latency, and error metrics, enabling proactive monitoring.

Fidelity Information Services — Bangalore
Software Engineer (Full-time) — *July 2021 - May 2022*

- **Microservices Development**: Developed REST APIs using WebFlux, implemented Feign clients for service interactions, and deployed scalable microservices on OpenShift.
- **ETL and Database Optimization**: Improved Spring Batch ETL workflows with Cassandra, boosting operational efficiency by 40%. Integrated Kafka with **Snowflake DB** using Kafka Connect **JDBC** Sink Connector.
- **Event-Driven Architecture**: Built a Kafka-based system for processing 5 million daily trade transactions, enabling real-time analytics and ensuring compliance with regulatory standards.
- **Security and Quality Assurance**: Ensured code quality and security compliance through **SonarQube, Veracode** scans, and Blackduck assessments. Resolved vulnerabilities based on severity to maintain high standards.

Pure Spice Blend — Gurgaon
Web Developer (Internship) — *Jun 2019 - Aug 2019*

- **E-Commerce Platform Development**: Built a platform using React, Node.js, and SQL to manage products and customers. Integrated Razorpay for secure payment processing, streamlining online transactions for the start-up.

EDUCATION

Bengal College Of Engineering & Technology — Kolkata, India
Bachelor of Technology - Computer Science & Engineering — *July 2017 - June 2021*

Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

PROJECTS

- **AI-Based Recommendation System**: Developing an AI-driven system for personalized product recommendations using collaborative and content-based filtering, with plans for optimization and deployment.
- **Algo Visualizer**: Created a web application to visualize 4+ sorting algorithms and backtracking techniques, enhancing understanding of algorithmic processes.

HONORS AND AWARDS

- Two Times Chairman's Club Nominee Award At Delta - Oct 2023/2024
- Delta's Best Contribution Platinum, Gold Award, 2024