

# ASHISH SHETHIA

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## SUMMARY

Software Engineer with 3.5+ years designing and developing scalable **backend services** and responsive **web applications** in **fast-paced, results-driven** environments. Proficient in **Java, Spring Boot, React.js, Node.js**, and **AWS**, with expertise in building robust **RESTful APIs**, **distributed systems**, and securing applications using **JWT** and **OAuth 2.0**. Experienced in **CI/CD pipelines**, **microservices architecture**, and real-time data processing with **Kafka** and **Redis**. Collaborates with **cross-functional teams** and adopts **Agile methodologies** and **Test-Driven Development** to deliver maintainable, production-ready solutions.

## PROFESSIONAL EXPERIENCE

### Software Engineer | JPMorgan Chase (Remote), USA

Sep 2024 – Present

- Scaled a loan origination and credit risk evaluation platform processing over **\$500M+** in annual loan applications, built with **Java, Spring Boot**, and **Angular**, enabling faster and more accurate loan decisions for personal and small-business clients.
- Developed and optimized **RESTful APIs** for credit risk scoring, document verification, and third-party credit bureau integration, accelerating loan processing and reducing manual review time by **30%**.
- Enhanced backend fraud detection services by implementing rule-based filters to reduce unnecessary processing and leveraging **Redis** and **Spring Cache** for efficient data caching, resulting in a **40% faster API response time** and the ability to handle over **1,000 requests per second** during peak load.
- Integrated **OAuth 2.0** and **JWT-based authentication** across **microservices**, strengthening system security, eliminating unauthorized access incidents, and passing all internal audits with zero exceptions.
- Built internal **ETL pipelines** using **Apache NiFi** and custom **Java modules** to extract, validate, and transform millions of credit and transaction records daily from legacy systems, ensuring data integrity and compliance with regulatory standards.
- Managed and optimized **MySQL** databases through **indexing** and **schema tuning**, boosting query performance by **40%** and ensuring transactional consistency across distributed **microservices**.
- Improved system reliability by designing and implementing **unit and integration test suites** using **JUnit** and **Mockito**, achieving over **90% code coverage** across critical **APIs** and services.
- Collaborated with **product owners** and **business analysts** to refine acceptance criteria and **user stories**, enhancing development efficiency by reducing rework by **20%** and delivering over **10 critical features** aligned with quarterly compliance and reporting goals.

### Software Engineer | Doble Engineering, Massachusetts, USA

Jan 2024 - July 2024

- Developed a real-time **notification and alerting system** using **Apache Kafka** and **C# (.NET Core)** for Doble's power system monitoring suite, achieving 99% uptime and enabling fault-tolerant communication for utility infrastructure alerts and equipment diagnostics.
- Migrated high-volume **time-series data** from **OSIsoft PI** to a modern data pipeline using **C++ ingestion modules** into **PostgreSQL**, reducing overall migration time by **30%** and improving data retrieval speed for historical analytics.
- Built and integrated a **Kafka simulator** and **REST APIs** to test and process streaming data workflows in real-time, enhancing downstream system reliability and improving event-handling accuracy by **25%**.
- Implemented **Redis caching** for Kafka consumer offsets to avoid redundant message reprocessing, increasing event throughput and reducing latency by **40%**.
- Refactored and containerized the Kafka infrastructure with **gRPC-based microservices**, deployed on **Kubernetes** using **Docker**, which improved system scalability and reduced resource consumption under high-load conditions.
- Designed and maintained **CI/CD pipelines** with **Jenkins**, enabling consistent build-test-deploy cycles, reducing manual deployment overhead and cutting delivery times by **40%** across dev and staging environments.

### Full Stack Developer | Sigma InfoTech, India

Jun 2020 – July 2022

- Developed a scalable **e-commerce web application** using **React.js, Node.js**, and **Express.js**, implementing real-time inventory updates with **WebSockets** to improve user experience and reduce stock inconsistencies.
- Created reusable, responsive UI components using **React.js, Redux, HTML5, CSS3**, and **Bootstrap**, resolving cross-browser layout issues and improving accessibility compliance by **20%**.
- Built and integrated **RESTful APIs** in **Go** and **Node.js** to streamline frontend-backend integration ensuring seamless data flow and reliable business logic.
- Implemented secure authentication and session management using **JWT**, and integrated **Stripe API** for payment processing, enhancing checkout security and reducing payment errors.
- Improved backend efficiency by designing asynchronous workflows in **Node.js** to handle concurrent user requests, optimizing response times under load.
- Designed and executed automated end-to-end test scripts using **Selenium WebDriver**, increasing test coverage and reducing production defects by **25%**.
- Automated build and deployment workflows using **Python scripts** and **GitHub Actions**, deploying scalable applications on **Heroku** and **AWS EC2** for server side services and **AWS S3** for static asset storage, reducing release cycles by **30%** and enhancing deployment reliability.
- Collaborated in **Agile teams** via **JIRA**, refining user stories, contributing to sprint planning and retrospectives, and driving quality through code reviews and feature releases that improved stability and accelerated delivery velocity.

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript (ES6+), TypeScript, .Net, C#, C++, C, Python, Go, SQL

**Frontend Technologies:** HTML5, CSS3, React.js (Hooks, Redux), Vue.js, Angular, Bootstrap, AJAX, jQuery, JSON, Chart.js

**Backend & API Development:** Spring Boot, Spring Security, Node.js, Express.js, RESTful APIs, JWT, gRPC, Servlets,

**Databases & Caching:** MySQL, PostgreSQL, MongoDB, Redis, SQL Server, OSIsoft PI (migration), ETL Pipelines, JDBC

**Cloud, DevOps & Infrastructure:** AWS (EC2, S3), Azure, Docker, Kubernetes, NetBeans, WebSockets, CI/CD, Jenkins, Git, JIRA,

**Testing & Quality Assurance:** JUnit, Mockito, Selenium, Jest, Mocha, Postman

**Version Control & Collaboration:** Git, GitHub, JIRA, Confluence, Agile/Scrum

## PROJECT

### University System Management ([Link](#))

- Built a multi-level academic system using Java Swing and MySQL, enabling streamlined access to student records, course data, and faculty details.
- Structured a role-based portal with CI/CD integration and Agile workflows, enabling continuous delivery and improving development efficiency.
- Utilized NetBeans IDE to accelerate GUI development and maintain modular code, enhancing maintainability and system scalability for administrative use.

### Tree Trips: Travel Beyond – Travel & Hotel Booking Platform ([Link](#))

- Built a responsive and user-friendly hotel booking platform with real-time search and filtering, improving performance by 15% using React.js and React Native.
- Optimized complex MongoDB queries and backend APIs to efficiently handle 10K+ concurrent bookings with consistent <100ms latency.
- Integrated Stripe with Redis caching and implemented secure JWT authentication, reducing abandoned bookings by 20% and ensuring seamless transactions.

## EDUCATION

Master of Science in Information Systems | *Northeastern University, Boston, MA*

Aug 2022 - Dec 2024

Bachelor of Engineering in Computer Science | *University of Mumbai, Mumbai, India*

Aug 2018 - May 2022