

# PREYASH AMAR MEHTA

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## Professional Summary

Full Stack Software Engineer with 2+ years of experience building scalable backend systems and web applications using Java, Spring Boot, Node.js, React, TypeScript, and AWS. Experienced in cloud-native APIs, event-driven services, and AI-powered applications with a focus on performance, reliability, production-ready delivery, and scalable system design across high-impact engineering projects.

## Technical Skills

<b>Programming Languages:</b>	Java, Python, TypeScript, JavaScript, SQL
<b>Backend Development:</b>	Spring Boot, Spring MVC, Node.js, FastAPI, GraphQL
<b>Frontend &amp; Frameworks:</b>	React.js, Redux, Zustand, HTML5, CSS3, Tailwind CSS, Vite, Streamlit
<b>Databases &amp; ORM:</b>	PostgreSQL, MySQL, Redis, MongoDB, Hibernate, Sequelize
<b>Cloud &amp; DevOps:</b>	AWS, Docker, Kafka, Jenkins, GitHub Actions, Terraform, Control-M
<b>Testing &amp; Observability:</b>	JUnit, Mockito, Jest, Unittest2, Selenium, Cypress, Postman, Datadog
<b>Developer Tools:</b>	Git, GitHub, VS Code, IntelliJ, GitHub Copilot, OpenAI APIs

## Professional Experience

### Bear Brown & Co

October 2024 – December 2024

#### Software Engineer Intern - AI Chatbot Developer

- Architected AI-powered chatbot web applications using Python and Streamlit to support university portals and CRM workflows, enabling real-time conversational assistance and improving response performance by **50%**.
- Engineered LLM-driven backend workflows and API integrations for university systems, including prompt orchestration, conversation state management, and monitoring, improving chatbot reliability by **18%**.

### Formless Inc

June 2024 – October 2024

#### Software Engineering Intern

- Developed APIs in Spring Boot and Node.js and deployed via Jenkins-based CI/CD pipelines (integrated with GitHub Actions) to AWS ECS and Lambda, resolving production incidents and response latency by **30%**.
- Designed GraphQL APIs consumed by React applications, improving feature reliability by **18%** and enhancing CloudWatch monitoring.
- Implemented React-based frontend features integrating REST APIs with validation logic, state management, and consistent UI patterns, improving workflow reliability and operational task completion rates.

### Atos

March 2023 – June 2023

#### Associate Consultant - GCM 2

- Led the migration of backend services into modular Java components, supporting over 500,000 daily ledger events using Kafka-based messaging with PostgreSQL-backed persistence.
- Collaborated with Agile teams using Jira for sprint planning and backlog refinement, to deliver scalable platform features.
- Enhanced React.js customer dashboards by optimizing API data fetching, state management, and component rendering, reducing load times and increasing user task completion rates by **25%**.

### Atos

March 2021 – February 2023

#### Associate Consultant - GCM 1

- Created Java services on AWS EC2 exposing payment-processing APIs, including request validation, secure persistence in RDS (MySQL), status tracking, and managed API exposure via API Gateway, maintaining **99.9%** uptime.
- Optimized backend performance using query tuning, schema design, and caching strategies, improving response times by **21%** while maintaining reliability for high-frequency data pipelines.
- Improved service quality via automated testing using JUnit, Selenium, REST-assured, and Jest, reducing regressions and improving reliability.

## Projects

### InsightIQ – AI Analytics Dashboard | React.js, TypeScript, FastAPI, Docker, PostgreSQL, Redis, LLMs

- Programmed InsightIQ, a data ingestion and analytics platform using FastAPI and React, leveraging Claude for AI-assisted backend development, test generation, and API validation across asynchronous workflows with PostgreSQL and Redis.

### Personal Data Vault | Java, Spring, React.js, MySQL, JWT, Web3j, Docker, WebSocket, Swagger

- Worked on building Spring Boot backend services with JWT authentication, OpenAPI documentation, and transactional workflows, ensuring secure state management and stable performance under concurrent, high-throughput request loads.

## Education

### Northeastern University

Boston, MA, USA

Master of Science in Computer Software Engineering (GPA: 3.83)

2025

Teaching Assistant – CSYE:7374 Design Patterns

Relevant Courses: Object-Oriented Design, Web Development, Cloud Computing, Data Structures & Algorithms, Design Patterns

### Savitribai Phule Pune University

Pune, MH, India

Bachelor of Engineering in Computer Engineering (GPA: 3.70)

2020

Relevant Courses: Machine Learning, System Design, Database Management, Computer Science, Information Systems, Distributed Systems