

Tejas Tawde

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EDUCATION

Northeastern University, Boston, MA

Sep. 2024 - May 2026

Master of Science in Software Engineering Systems

Relevant Coursework: Object-Oriented Design, Data Management & Database Design, Network Structures and Cloud Computing, Enterprise Software Design

Mumbai University, Mumbai, India

Aug. 2019 - Jul. 2023

Bachelor of Engineering in Electronics and Telecommunication Engineering

TECHNICAL SKILLS

Programming Languages	: Python, Java, JavaScript, TypeScript, HTML/CSS, C++, Dart
Web Technologies	: React, Vue.js, Next.js, Material UI, Tailwind CSS, Bootstrap, Flutter
Backend Frameworks	: Flask, Django, FastAPI, Spring Boot, Express.js, Node.js, GraphQL, Microservices
Cloud & DevOps	: AWS, GCP, Docker, Kubernetes, CI/CD, GitHub Actions, Packer, Terraform
Databases	: MySQL, PostgreSQL, Oracle SQL, MongoDB, Redis

PROFESSIONAL EXPERIENCE

Software Engineer | Route Mobile Limited, Mumbai, India

Nov. 2023 - Jul. 2024

- Designed and implemented **RESTful APIs** using **Flask**, enabling seamless data exchange between **React** frontend and backend services, significantly improving data retrieval speeds
- Developed and maintained full-stack web application with comprehensive unit testing via **PyTest**, ensuring robust code coverage and enhancing chatbot interaction quality
- Optimized data architecture by implementing **Redis** caching and **AWS RDS** for persistent storage, reducing database load and cutting API response times across critical user workflows
- Deployed** scalable cloud infrastructure using **AWS EC2**, **S3**, and **RDS**, enabling reliable management of media assets and ensuring high service availability during peak usage periods
- Enhanced system performance through service decomposition and containerization with **Docker** and **Kubernetes**, enabling independent scaling of components and streamlining deployment workflows

PROJECTS

Finance Navigator - Java Spring Boot, MVC, Hibernate, JSP [[GitHub Link](#)]

- Engineered a personal finance management system using **Spring Boot**, **Hibernate ORM** with manual session management, implementing DAO pattern and **MVC architecture**
- Developed a robust authentication system with custom enrollment and profile management features using **JSP**, **JSTL**, and **EL** for dynamic views
- Implemented a financial tracking system with dual-classification transactions, custom category management, and real-time financial summary calculations

TripSync: Travel Itinerary Manager - Java Spring Boot, React, MySQL [[GitHub Link](#)]

- Designed a comprehensive travel itinerary management system by implementing design patterns, resulting in significantly improved code reusability and faster development of similar features.
- Created a full-stack application with **Java Spring Boot** backend and **React** frontend, delivering streamlined trip and activity management with faster API response times.
- Enhanced data processing capabilities by applying functional programming concepts and the **Stream API**, creating a maintainable codebase with reduced complexity while ensuring secure data storage using MySQL

Cloud-Native WebApp - Flask, Packer, Terraform, AWS [[GitHub Link](#)]

- Engineered a cloud-native **Flask** application with **PyTest** automation and deployed **Terraform IaC** for AWS infrastructure orchestration
- Constructed **CI/CD** pipelines using **GitHub Actions** and **Packer** to automate testing, validation, and cross-platform image creation
- Architected RESTful APIs integrating AWS S3 for file storage and RDS MySQL for metadata management with high-availability infrastructure