

THARUN TEJA MOGILI

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in backend systems, test automation, and cloud-native applications. Skilled in Java, Python, React, Selenium and AWS, with a strong focus on testing APIs and scalable microservices. AI/ML enthusiast with hands-on project experience, passionate about building reliable, intelligent systems.

EDUCATION

State University of New York at Buffalo | Buffalo, NY

Jan 2024 - May 2025

Master of Science in Computer Science

GPA : 4.00

Relevant Coursework : Machine Learning, Deep Learning, Data Structures and Algorithms, Data Models and Query Languages

TECHNICAL SKILLS

Languages : Java, Python, JavaScript, C++
Web Frameworks : Spring Boot, React.js, Angular, Express.js, Django, Playwright, TestNG, JUnit
Database Systems : MySQL, PostgreSQL, MongoDB, Redis
Cloud & DevOps : AWS, Azure, Docker, Jenkins, Kubernetes, Kafka, RabbitMQ
Tools : GitHub, JIRA, SonarQube, VMware, VS Code, Postman, Maven, Splunk
AI/ML & Deep Learning : Pytorch, Tensorflow, Neural Networks, Transformers, Generative AI, NLP

EXPERIENCE

LTIMindtree | Software Engineer

Dec 2022 - Jan 2024

Python, CRNN, OCR, GraphQL, Clustering

Hyderabad, India

- Developed a hybrid OCR pipeline using **Tesseract**, **CRNN**, and NER models to extract and validate insurance form fields, boosting data accuracy, reducing manual review by 60%, and **saving \$500K annually**.
- Deployed a data validation framework for ML models and created a UI-based policy recommendation system, minimizing manual errors and **speeding up claim processing by 3x**.
- Integrated **GraphQL** with REST APIs to power dynamic frontend applications, improving data accessibility and UX responsiveness across web components.

Larsen & Toubro Infotech (LTI) | Software Engineer

Jan 2021 - Dec 2022

Java, Spring Boot, React, AWS, Selenium

Pune, India

- Modernized legacy insurance platforms into scalable Java **Spring Boot** microservices architecture and built a responsive **React-TypeScript** UI, improving **application performance by 40%** and **enabling faster feature releases**.
- Developed and secured **RESTful APIs** using Java Spring Boot for insurance policy workflows, implementing **OAuth 2.0** and **JWT** to control access across applications, reducing unauthorized requests and improving integration reliability.
- Optimized **MySQL** database performance by restructuring relational schemas and integrating **Hibernate** caching, reducing query **response time by 35%** and ensuring system reliability during peak insurance policy transactions.
- Created an extensive automated test suite, incorporating unit tests for **15 key modules** and complete end-to-end testing using **Selenium and Robot Framework**, enhancing software quality and reliability.
- Managed deployments by integrating **Azure Git** with **AWS CodeDeploy** to automate CI/CD to **EC2**, reducing production issues by 25%.
- Collaborated with 5+ cross-functional teams in **Agile** SDLC to gather requirements, track defects, conduct root cause analysis, and resolve 20+ post-release issues using **JIRA**, ensuring on-time delivery.

PROJECT EXPERIENCE

Ticket Booking System

Jun 2024 - Aug 2024

Spring Boot, React, Angular, PostgreSQL

- Developed a highly concurrent ticket booking platform using **Spring Boot**, featuring dynamic UIs in **React** and **Angular**, supporting 10,000+ users through object-oriented design and transactional integrity.
- Designed scalable REST APIs and optimized SQL queries, **reducing load time by 40%** and maintaining 99.9% uptime for a seamless, high-performance booking experience.

Distributed Pub-Sub System for Ubisoft Game Updates | [Github](#)

Oct 2024 - Dec 2024

Python, Kafka, Flask, Docker, MySQL

- Designed a Pub-Sub system using Python, **Kafka**, and Docker for real-time Ubisoft game updates, ensuring low-latency, high-throughput messaging optimized for distributed architectures.
- Incorporated event-driven architecture with **Flask** and MySQL for subscriber management, leveraging rendezvous-based routing to boost message delivery, enhancing scalability and reliability.

AI-Powered Travel Planner | [Github](#)

Jan 2024 - Mar 2024

TypeScript, Next.js, OpenAI API, NLP, Convex Backend

- Engineered a SaaS-based AI travel planner using **Next.js**, **Convex**, and **OpenAI APIs** to auto-generate personalized itineraries from user prompts, streamlining the trip planning process and **cutting manual effort by 80%**.
- Incorporated real-time features like expense tracking, email collaboration, and weather-aware suggestions, enhancing user experience and boosting itinerary relevance and **planning efficiency for 1K+ potential users**.