

Tushar Tank

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SUMMARY

Full Stack Software Engineer with 3+ years of experience building scalable AI-powered and distributed systems in healthcare and fintech. Led end-to-end development across backend, frontend, and DevOps using Python, JavaScript, PySpark, Docker, and cloud-native tools.

EDUCATION

Master of Science, Computer Science

The University of Texas at Dallas

May 2025

GPA: 3.79 / 4

Bachelor of Engineering, Information Technology

Pune University

May 2020

GPA: 3.8 / 4

PROFESSIONAL EXPERIENCE

University of Texas at Dallas | **Graduate Teaching Assistant**

Jan 2024 - May 2025

- Supported instruction and graded coursework for a C programming class of 150 students, managing assignments and feedback.
- Led weekly lab sessions and office hours, providing direct support to students for concepts in C programming.

Persistent Systems | **Software Engineer**

Aug 2021 - Jul 2023

- Architected a Quality Assurance platform in **Java & Scala** for diagnostic instruments, achieving deployment across 10,000+ labs and clinics while reducing device issue reporting by **20%**.
- Led the backend integration of clinical devices by engineering **JavaScript data transformers**, achieving seamless interoperability and cutting report generation time by **43%**.
- Developed backend services to transform and synchronize clinical data, ensuring full compliance with **HIPAA** and **HL7** standards for regulatory alignment across all medical systems.
- Engineered a **microservices** architecture using **Python** and **Flask**, deploying secure **RESTful** APIs that processed **500,000+** requests daily from connected clinical systems.
- Created a scalable automated testing framework with **Python** and **Selenium**, reducing manual validation time by **50%** and increasing critical bug detection by **80%**.
- Orchestrated **CI/CD** pipelines using **Azure** DevOps to automate deployments, enhancing release process reliability and reducing manual intervention.

Persistent Systems | **Associate Software Engineer**

Nov 2020 - Jul 2021

- Designed 15+ reusable Lit components with **TypeScript** following **Test Driven Development** principles, improving reliability and reducing code duplication by **30%**.
- Integrated Lit components into **Angular** using custom wrappers, reducing integration time by **3+** hours per component.
- Implemented a production-ready flow cytometry sorting application with **Electron** and **Angular**, providing analysis and sorting control UI for 11+ cell sorters.

PROJECTS

ResumeMatch AI | MongoDB, Express.js, React.js, Node.js, FastAPI, Gemini API, Docker | [Github](#)

Jul 2025

- Deployed an AI-powered resume tailoring platform using Gemini API with function calling and structured prompting, improving resume-job match accuracy by over 85% in benchmark tests.
- Built a React frontend and RESTful APIs with FastAPI/Node.js, delivering personalized resume suggestions in under 2 seconds per query.

Event Manager | Node.js, Express.js, GraphQL, MongoDB, Docker | [Github](#)

May 2025

- Created a fully Dockerized backend for an event management platform with GraphQL APIs and secure JWT auth, supporting up to 1,000 concurrent users in load testing.
- Containerized the application using Docker and Docker Compose, enabling seamless local development and deployment.

Market Prediction Sys | PySpark, LSTM, Python, MapReduce, Kafka, Elasticsearch

Apr 2025

- Programmed an LSTM neural network for stock market prediction using PySpark, achieving an R-squared of 0.70.
- Integrated Kafka and Elasticsearch pipelines to stream and preprocess real-time market data efficiently at scale.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, Typescript

Backend and Database: Flask API, Apache Kafka, GraphQL, Node.js, Express.js, MySQL, PostgreSQL, MongoDB, SQLite

Frontend: React, Redux, Angular, lit-element Web components, HTML5, CSS3, Jest, Mocha

Cloud & DevOps: Docker, Kubernetes, Git, Postman, Github Actions, Azure DevOps, Elasticsearch, Watchtower