

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

Heartland Community network | **Software Developer**

Aug 2024 - Present

- Architected the foundational cloud infrastructure for a recipe app, deploying a Node.js backend on AWS Elastic Beanstalk and using Amazon DocumentDB to validate a scalable data model for future growth.
- Migrated the authentication system from Supabase to a custom Node.js and JWT solution, eliminating monthly costs and cutting user login time by 50%.
- Developed an AI-powered content pipeline using Amazon Rekognition and AWS Lambda to automatically moderate user images and generate recipe tags from photos, enhancing platform safety while boosting recipe discoverability by an estimated 50%.
- Developed a responsive and performant user interface in React Native and TypeScript, creating a reusable component library with NativeWind.

Persistent Systems | **Software Engineer**

Nov 2020 - 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.
- 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.

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