

VATSAL VORA

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Senior Software Engineer with 5 years of experience in **full-stack development** and **distributed systems**. Expert in building scalable data-driven applications and integrating production-grade ML models into complex workflows. Proven track record of optimizing system performance by up to 90% and leading cross-functional teams to deliver enterprise-level features for 1,000+ global clients.

SKILLS

Languages: Python (Expert), Go, TypeScript, JavaScript, SQL, Bash, C++

Backend/Cloud: FastAPI, Django, Node.js, AWS (EC2, Lambda), Kubernetes, Docker, CI/CD

Frontend: React.js, Redux, Vue.js, TypeScript, D3.js, UI/UX Design

Data ML: Scikit-learn, Pandas, Deep Learning, SQL, MongoDB, Splunk ITSI

WORK EXPERIENCE

Senior Developer

April 2025 – Present

HCLTech

Pune

- **System Migration:** Orchestrating the architectural migration of a legacy logistics and transport management system for TGE to a modern **React** and **Python FastAPI** stack.
- **Real-Time Geospatial Systems:** Engineered a live geospatial engine using **WebSockets** to track 250+ concurrent drivers per state with 5-second update intervals, ensuring sub-second latency for dispatch operators.
- **Operational Command Center:** Developed a high-concurrency Dispatch Screen enabling real-time job assignment, driver status monitoring (e.g., active, on break).
- **Feature Engineering:** Designed and implemented core features including Job Creation workflows and comprehensive Driver Audit reports to track location stops and historical performance.
- **Automated Workflows:** Developed automated **PDF Manifest** and **Proof of Delivery (POD)** generation systems, digitizing critical logistics documentation for the transport fleet.
- **Quality & Compliance:** Established a rigorous CI/CD culture with **80% test coverage** (Pytest, Jest) and integrated **SonarQube** to maintain high code quality standards.

Senior Software Engineer (Contracted to Splunk ITSI)

April 2023 – April 2025

Crest Data

Ahmedabad

- **System Architecture:** Architected and deployed the **ML-Assisted Thresholding** engine, integrating real-time ML models with UI workflows to provide automated KPI recommendations for enterprise clients.
- **Performance Optimization:** Engineered a nightly data recalculation mechanism that reduced search time consumption by **90%** through advanced query optimization and efficient object processing.
- **Product Leadership:** Led the development of the **Configuration Assistant**, a ITSI health monitoring and configuration tool recognized at **Splunk.conf24** for its innovative use of ML-driven multi-KPI thresholding.
- **Team Leadership:** Managed a full-stack team to build an MR Analysis application using **React** and **Django**, utilizing NLP models to automate the categorization of developer feedback.

Software Engineer (Contracted to Splunk ITSI)

May 2021 – March 2023

Crest Data

Ahmedabad

- **Full-Stack Engineering:** Developed the **Service Insights** module using **React** and **Python**, significantly reducing false-positive alerts for over 700+ enterprise customers.
- **Infrastructure DevOps:** Spearheaded the migration of enterprise content packs to **GitLab**, establishing automated **CI/CD pipelines** that streamlined deployments for 1,000+ users globally.
- **Quality Engineering:** Achieved **80% test coverage** by implementing automated testing suites with **Jest** and **Pytest**, resolving 50+ critical customer-facing issues.

ACHIEVEMENTS AND CERTIFICATIONS

- **Crest Achievement Program (CAP):** Awarded 4 consecutive years (2021-2024) for excellence in feature delivery and technical adaptation.
- **Deep Learning Nanodegree** (Udacity) & **IBM Data Science Specialization** (Coursera).

EDUCATION

Chandubhai S. Patel Institute of Technology

B.Tech in Computer Engineering

May 2021

GPA: 9.49