

Aditya Sugandhi

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SUMMARY

Full-Stack Software Engineer with 5+ years building **developer productivity tools** and **internal platforms**. Proficient in **React/TypeScript** and **Python/FastAPI** with production experience in **RESTful APIs**, **distributed systems**, and **GenAI integration**. Proven track record delivering tools that enhance **operational excellence** for engineering teams.

TECHNICAL SKILLS

- **Frontend:** React, TypeScript, Next.js, JavaScript, HTML/CSS, Responsive UI Design, Component Libraries
- **Backend:** Python, FastAPI, Node.js, Java, Spring Boot, GraphQL, RESTful APIs, gRPC
- **GenAI & ML:** LLMs (GPT, Llama), RAG Pipelines, AI Agents/Tools, Groq API, Embedding Models, Prompt Engineering
- **Data & Infrastructure:** PostgreSQL, Redis, MongoDB, Apache Kafka, AWS (EKS, Lambda, S3), Kubernetes, Docker
- **Developer Tools:** CI/CD (Jenkins, GitHub Actions), Grafana, Prometheus, Distributed Tracing, Monitoring Dashboards
- **Practices:** Cross-functional Collaboration, Agile/Scrum, Code Review, TDD/BDD, Technical Documentation

WORK EXPERIENCE

Full-Stack Software Engineer

Florida State University

Nov 2024 – Present

Tallahassee, FL

- Built **developer productivity platform** with **React/TypeScript** frontend and **Python/FastAPI** backend; created **37 RESTful API endpoints** serving **35K+ devices** with **real-time WebSocket** streaming for intuitive debugging experiences.
- Designed **internal tooling UI** with seamless user experiences; incorporated engineer feedback to improve usability and adoption, achieving **99.2% system accuracy** across **172+ networks**.
- Integrated **GenAI capabilities** to automate repetitive debugging tasks; built AI-powered analysis features using **LLMs and RAG pipelines** reducing manual investigation time by **40%**.
- Collaborated with **cross-functional teams** to implement debugging tools; established **Grafana/CloudWatch** monitoring dashboards enhancing **operational excellence** for the engineering organization.

Software Engineer - Data Platform

Prof. Olmo Zavala Romero — FSU

Jan 2023 – Aug 2024

Tallahassee, FL

- Built **distributed backend systems** using **Python** and **Spark** on **Kubernetes** clusters; processed **1TB+ datasets** supporting services handling **thousands of queries per second**.
- Developed **developer tools** for data pipeline monitoring and debugging; created intuitive **React dashboards** with **Prometheus/Grafana** integration for real-time observability.
- Proactively communicated with **distributed teams across time zones** to drive project delivery; reduced **pipeline runtime by 50%** through cross-team collaboration on optimization strategies.

Software Engineer

Aspire Systems

Oct 2020 – Jul 2022

Chennai, India

- Led **full-stack development** of enterprise platform using **Java/Spring** backend and **React** frontend; built **RESTful APIs** processing **500K+ events/day** with **99.5% availability**.
- Architected **distributed backend systems** with **Kafka** event streaming and **microservices**; implemented fault-tolerant async delivery handling **10x traffic spikes** during peak loads.
- Built **operational dashboards** with **Prometheus, Grafana** for engineering teams; reduced **MTTR by 60%** through intuitive debugging interfaces and automated alerting.
- Collaborated with **cross-functional teams distributed globally**; drove projects from design to deployment while mentoring **5 engineers** on best practices and code review standards.

PROJECTS

- **AI-Powered Resume Optimization Platform** — Built **full-stack GenAI application** with **React/TypeScript** frontend and **Next.js** backend. Integrated **LLMs (Llama 3.3)**, **RAG pipelines**, and **AI agents** for intelligent document analysis. Implemented **semantic search** with embedding models. Tech: **TypeScript, React, Next.js, Groq API, Vector Embeddings**.
- **Developer Productivity Dashboard** — Created **React/TypeScript** monitoring platform with **13 RESTful API endpoints** and **GraphQL** support. Built intuitive UI for **real-time metrics visualization**, configurable alerting, and **debugging tools**. Focused on UX to maximize engineer adoption. Tech: **TypeScript, React, Node.js, PostgreSQL, Grafana**.
- **Distributed Services Platform** — Architected **Java/Spring** microservices with **Kafka** event streaming handling **1000+ req/sec**. Built **developer tools** for service health monitoring, **distributed tracing**, and operational debugging. Tech: **Java, Spring Boot, Kafka, Kubernetes, Docker**.

EDUCATION

Florida State University M.S. in Computer Science	Tallahassee, FL
<ul style="list-style-type: none">Relevant Coursework: Distributed Systems, Advanced Database Systems, Data Communications, Machine Learning	
SRM Institute of Science & Technology B.Tech. in Computer Science	Chennai, India

PUBLICATIONS & CERTIFICATIONS

- Review Classification & False Feedback Detection (IJAST) | AWS Solutions Architect (Udemy, 2024)