

Aditya Sugandhi

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SUMMARY

Software Engineer with 5+ years building **enterprise-grade reporting and analytics platforms**. Expert in **Java**, **Angular/React**, and **Python** with production experience in **GenAI integration**, **event-driven microservices**, and **real-time data pipelines**. Proven track record leading engineering teams and delivering **scalable financial analytics solutions** with **99.99% availability**.

WORK EXPERIENCE

Software Engineer II

Florida State University — Finance Technology Division

Nov 2024 – Present

Tallahassee, FL

- Led design and development of **enterprise-grade reporting and analytics platform** using **Java** and **Angular**; architected **37 RESTful API endpoints** with **real-time WebSocket streaming** serving **35K+ IoT sensors** for P&L calculations and compliance monitoring.
- Drove adoption of **GenAI and Copilot tools** for automated reporting; built **AI-powered analysis modules** using **OpenAI/Anthropic APIs** that reduced manual investigation time by **40%** and enhanced developer productivity across engineering teams.
- Architected **event-driven microservices** using **Spring Boot** and **Apache Kafka** processing **5M+ daily telemetry events**; implemented **distributed caching with Redis** reducing **synchronization latency** by **45%** for real-time dashboards.
- Mentored **team of 6 engineers** on **SDLC best practices**, code quality standards, and **modern engineering patterns**; established **CI/CD pipelines** and automated testing achieving **99.5% deployment success rate**.
- Built **compliance monitoring service** scanning **10K+ asset configurations** daily against **regulatory policies**; implemented **horizontal PostgreSQL sharding** for **500M+ records** improving query performance by **2x** for compliance audits.

Machine Learning Engineer

Prof. Olmo Zavala Romero — FSU

Jan 2023 – Aug 2024

Tallahassee, FL

- Built **scalable analytics pipelines** processing **1TB+ datasets** using **Python** and **Apache Spark**; implemented **vector embeddings** and **semantic search** with **observability dashboards** (Grafana, MLflow) for quality and latency monitoring.
- Developed **workflow orchestration systems** on **Kubernetes** handling **ML inference** at scale; optimized **batch processing** and **retry patterns** achieving **50% pipeline runtime reduction** with **99% job success rate**.
- Collaborated with cross-functional teams to iterate from experimentation to production; delivered **data-driven insights** supporting strategic business decisions and compliance reporting.

Software Engineer I

Aspire Systems

Oct 2020 – Jul 2022

Chennai, India

- Led **full-stack development** using **Java/Spring Boot** backend and **Angular/React** frontend; architected **microservices** processing **500K+ events/day** with **Kafka event streaming** and **99.5% availability**.
- Built **financial reporting modules** with **general ledger integration** and **P&L calculations**; designed **RESTful APIs** supporting **regulatory compliance** and **audit trail** requirements for enterprise clients.
- Implemented **observability pipelines** with **Prometheus/Grafana** for real-time monitoring; established **distributed tracing** reducing **MTTR** by **60%** through automated alerting and debugging interfaces.
- Mentored **5 junior engineers** on **event-driven architecture** and **security-first** coding practices; promoted **agile methodologies** and **automated testing** improving team velocity by **25%**.

Associate Software Engineer

IMPETUS Technologies

Jun 2019 – Sep 2020

Noida, India

- Developed **Java and Python** backend services for **real-time data processing**; built **RESTful APIs** handling **100K+ daily requests** with **Redis caching** for low-latency responses supporting analytics dashboards.
- Implemented **workflow automation tools** using **Node.js** and **Python**; created internal **data pipeline orchestration** systems supporting engineering team productivity and reporting accuracy.

PROJECTS

- GenAI-Powered Analytics Platform** — Architected **full-stack reporting application** with **Java/Spring Boot** backend and **Angular** frontend. Integrated **GenAI (Llama 3.3, Copilot)** for automated report generation and **semantic analysis**. Built **real-time dashboards** with **Power BI integration**. Tech: **Java, Angular, Python, Kafka, PostgreSQL**.
- Enterprise Data Pipeline Orchestration** — Designed **Apache Airflow** workflow system processing **50M+ daily events** from financial data sources. Implemented **OLAP analytics** with **compliance monitoring** and **automated alerting**. Achieved **99.9% data accuracy** with **sub-second query latency**. Tech: **Python, Airflow, Spark, AWS**.
- AI Developer Productivity Tools** — Developed **TypeScript-based SDK** enabling **Copilot integration** for automated code generation and development automation. Built **evaluation harnesses** measuring **AI-assisted productivity gains**. Tech: **TypeScript, Node.js, Claude API, OpenAI**.

TECHNICAL SKILLS

- Languages:** Java, TypeScript, Python, JavaScript, SQL, Scala, HTML/CSS
- Frontend:** Angular, React, Next.js, TypeScript, Component Libraries, Responsive Design

- **Backend:** Spring Boot, Node.js, FastAPI, gRPC, RESTful APIs, Event-Driven Architecture, Microservices
- **AI/ML & Analytics:** GenAI (OpenAI, Anthropic Copilot), Power BI, Apache Airflow, OLAP, Data Pipelines, Evaluation Harnesses
- **Data & Cloud:** PostgreSQL, Redis, MongoDB, Apache Kafka, AWS (EKS, Lambda, S3), Kubernetes, Docker, CI/CD Pipelines
- **Practices:** Agile/Scrum, SDLC Best Practices, Automated Testing, Code Quality, Technical Leadership, Cross-functional Collaboration

EDUCATION

Florida State University
M.S. in Computer Science

Tallahassee, FL

- **Relevant Coursework:** Distributed Systems, Advanced Database Systems, Machine Learning, Data Communications

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)