

# 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

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**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

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