Aditya Sugandhi

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SUMMARY

Software Engineer with 5+ years building **production-grade AI and automation solutions** on enterprise platforms. Expert in **Python** and **Java** with hands-on experience designing **agentic AI systems**, **RAG pipelines**, **multi-agent orchestration**, and **vector database integrations**. Proven track record delivering **robust enterprise integrations and APIs** that drive **end-to-end automation and process efficiency** at scale.

TECHNICAL SKILLS

- **Languages:** Python, Java, Go, JavaScript/TypeScript, Scala, SQL, Bash, C++
- **Agentic AI & LLMs:** AI Agents, Multi-Agent Systems, Agentic Frameworks (LangChain, CrewAI), RAG Pipelines, LLMs (GPT, Llama, Groq), Prompt Engineering, Tool/Agent Integrations, Vector Databases (Pinecone, ChromaDB)
- **Enterprise Platforms:** ServiceNow (familiar), Snowflake, Salesforce (familiar), REST/GraphQL APIs, Webhook Orchestration, Enterprise System Integration, Boomi (familiar)
- **Data & Infrastructure:** PostgreSQL, Redis, MongoDB, Apache Kafka, Spark, AWS (EKS, Lambda, S3), Kubernetes, Docker
- **DevOps & Observability:** CI/CD (GitHub Actions, Jenkins), Grafana, Prometheus, CloudWatch, Distributed Tracing, Testing Frameworks
- **Practices:** Agile/Scrum, Cross-Functional Collaboration, Code Review, TDD, Technical Documentation, Ownership-Driven Development

WORK EXPERIENCE

Software Engineer — AI & Automation   Nov 2024 – Present
Florida State University   Tallahassee, FL

- Designed and developed **agentic AI solutions** integrating **LLMs** with **enterprise systems**; built **AI agents** and **orchestration services** that automate device discovery across **172+ networks**, reducing manual investigation by **85%** and processing **35K+ devices** with **99.2% accuracy**.
- Built **RAG pipelines** and **vector database integrations** for context-aware AI experiences; implemented **agentic workflows** that retrieve, reason over, and act on enterprise data, cutting debugging time by **40%** for **15+ engineering teams**.
- Developed **robust integrations and APIs** (**37 REST endpoints**) connecting internal platforms and third-party services; implemented **real-time WebSocket streaming** and **Redis caching** to enable **end-to-end automation** of operational workflows.
- Established **observability and CI/CD practices** using **GitHub Actions**, **Grafana/CloudWatch** monitoring, and automated testing; reduced **MTTR by 60%** through proactive alerting and **ownership-driven incident response**.

Software Engineer — Data & AI Platform   Jan 2023 – Aug 2024
Prof. Olmo Zavala Romero — FSU   Tallahassee, FL

- Architected **multi-agent data processing pipelines** using **Python** and **Spark** on **Kubernetes** clusters; orchestrated parallel task execution across distributed workers, achieving **+40% throughput** over **1TB+ datasets** with **99% job success rate**.
- Implemented **vector embedding pipelines** and **semantic search** using Transformers for **RAG-based retrieval**; deployed **context-aware query engine** processing **1,000+ documents** with **95% accuracy** and **sub-200ms latency**, monitored via **Grafana/MLflow**.
- Collaborated with **cross-functional teams** (data scientists, researchers, platform engineers) to define **standards and patterns for AI pipelines**; reduced **pipeline runtime by 50%** through automation and process optimization.

Software Engineer — Enterprise Integrations   Oct 2020 – Jul 2022
Aspire Systems   Chennai, India

- Led development of **production-grade enterprise platform** using **Java/Spring Boot**; built **event-driven orchestration services** with **Kafka** processing **500K+ events/day**, integrating with **enterprise APIs** and third-party systems with **99.5% availability**.
- Designed **robust integrations and APIs** extending platform capabilities across business units; implemented **fault-tolerant async workflows** with dead-letter queues and **exactly-once semantics** handling **10x traffic spikes** during peak operations.
- Built **monitoring, testing, and observability infrastructure** using **Prometheus**, **Grafana**, and **distributed tracing**; troubleshot production systems with proactive alerting, reducing **MTTR by 60%** and maintaining **SLA compliance**.
- Collaborated with **platform, data, and application teams** to deliver automation solutions; mentored **5 engineers** on **software engineering best practices**, **code review standards**, and **TDD**; achieved **90% test coverage**.

PROJECTS

- **AI-Powered Resume Optimization Platform (Agentic AI)** GitHub — Built **production-grade agentic AI application** with **multi-agent orchestration**: job scanning agent, semantic matching agent, and resume optimization agent. Implemented **RAG pipelines** with **vector database integration**, LLM-based tool calling, and **agentic workflows** for intelligent document analysis. Tech: **Python, TypeScript, LLMs (Llama 3.3), Vector Embeddings, Groq API, Next.js**.
- **Enterprise Slack Bot — AI Agent Integration** GitHub — Deployed **agentic AI chatbot** on enterprise Slack via **Socket Mode API**; built **tool/agent integrations** with internal APIs for **automated workflow management**. Achieved **24/7 availability** with **sub-40s response times**. Tech: **Python, Node.js, AWS EC2, PM2, OAuth 2.0, WebSockets**.
- **Distributed Data Pipeline (Kafka/Spark/Kubernetes)** GitHub — Architected **real-time data ingestion pipeline** with **Kafka** and **Spark** Streaming on **Kubernetes**; built **orchestration layer** for multi-source data integration processing **10K+ events/sec**. Tech: **Java, Scala, Kafka, Spark, Kubernetes, Docker, Helm**.

EDUCATION

Florida State University
M.S. in Computer Science   Tallahassee, FL

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

SRM Institute of Science & Technology
B.Tech. in Computer Science   Chennai, India

PUBLICATIONS & AWARDS

- Review Classification & False Feedback Detection (IJAST)
- 2nd Place, SRM University Hackathon (2019)
- AWS Solutions Architect Course (Udemy, 2024)