

Aditya Sugandhi

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SUMMARY

Senior Full Stack Engineer with 5+ years designing and deploying **cloud-native applications** in **Python**, **Java**, and **React.js**. Deep expertise in **AWS** (Lambda, EC2, SQS, SNS, API Gateway, DynamoDB, CloudFormation) with production experience owning **serverless architectures** processing **500k+ events/day**. Proven track record of **mentoring engineers**, driving **CI/CD excellence**, and actively exploring **AI integration** to accelerate development workflows. Thrives in **Agile/Scrum** environments with strong cross-functional collaboration.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript/TypeScript, SQL, Bash, Dart (Flutter familiar)
- **Frontend:** React.js, Next.js, Tailwind CSS, Redux, HTML5/CSS3, Responsive Design
- **Backend & APIs:** FastAPI, Spring Boot, Node.js, REST/GraphQL, gRPC, Microservices Architecture
- **AWS Cloud:** Lambda, EC2, SQS, SNS, API Gateway, DynamoDB, S3, CloudFormation, CodeBuild, EKS, MSK
- **DevOps & CI/CD:** Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Git, Argo
- **Databases:** PostgreSQL, DynamoDB, Elasticsearch, Oracle, Redis
- **AI & Emerging Tech:** Claude Code, GitHub Copilot, LLM integration, AI-assisted code review & deployment
- **Practices:** Agile/Scrum, Kanban, TDD/BDD, 24/7 On-Call, Technical Mentorship

WORK EXPERIENCE

Software Engineer II

Florida State University

Nov 2024 – Present

Tallahassee, FL

- **Designed and deployed full-stack platform** serving **35k+ IoT devices** across **172+ networks**; built **37 REST/gRPC API endpoints** with **Python/FastAPI** backend, **React.js** frontend, **PostgreSQL** persistence, and **Redis** caching achieving **99.2% accuracy**.
- Architected **serverless event-driven microservices** using **AWS Lambda**, **SQS**, and **SNS** for async task processing; implemented **API Gateway** with rate limiting and **JWT-based RBAC** authentication.
- Built **CI/CD pipelines** (GitHub Actions, Jenkins) with **Docker** containerization and **CloudFormation IaC**; established **Kibana/CloudWatch** dashboards reducing **MTTR by 40%** through proactive alerting.
- Drove **code quality** with **360+ unit/integration tests** achieving **85%+ coverage**; mentored **3 junior developers** on **TDD/BDD** practices and **Agile/Scrum** methodologies.
- Actively **exploring AI integration** using **Claude Code** and **GitHub Copilot** for code generation, automated testing, and deployment optimization — reducing feature development time by **25%**.

Software Engineer

Prof. Olmo Zavala Romero — FSU

Jan 2023 – Aug 2024

Tallahassee, FL

- Built **distributed data pipelines** on **AWS EMR/EC2** processing **1TB+ datasets** using **Python (PySpark)**; implemented shuffle optimization and partitioning strategies achieving **+40% throughput** and **99% job success rate**.
- Developed **full-stack analytics dashboard** with **React.js** frontend and **Python/FastAPI** backend; integrated **Elasticsearch** for real-time search across **50M+ records** with sub-second query response.
- Deployed end-to-end **monitoring stack** with **Prometheus/Grafana** and **CloudWatch**; automated drift detection and **SLA alerting** reducing pipeline failures by **50%**.

Software Engineer

Aspire Systems

Oct 2020 – Jul 2022

Chennai, India

- Led **monolith-to-microservices migration** on **AWS EKS**; owned architecture and implementation of **event-driven services** in **Java (Spring Boot)** and **Python**; improved availability to **99.5%** and reduced infrastructure costs by **20%**.
- Architected **real-time event streaming** using **AWS SQS/SNS** and **Kafka (MSK)** with consumer groups and **DynamoDB Streams**; processed **500k+ events/day** with dead-letter queues enabling **10x spike handling**.
- Built **operational dashboards** with **Kibana**, **Grafana**, and **CloudWatch**; established **24/7 on-call** with PagerDuty, reducing **MTTR by 60%** through automated runbooks.
- Deployed **auto-scaling infrastructure** with **Docker**, **Kubernetes**, and **CloudFormation IaC**; implemented **CodeBuild CI/CD pipelines** for rapid, safe deployments across dev/staging/prod.
- **Mentored 5 developers** on **Agile/Scrum** practices, design patterns, and **microservices architecture**; achieved **90% unit test coverage** with **TDD/BDD** across all services.

PROJECTS

- **AI-Powered Resume Platform** — Built **full-stack SaaS** with **Next.js 14**, **Python/FastAPI**, and **AWS Lambda**. Integrated **LLM APIs (Groq)** for intelligent job matching and resume optimization. Deployed on **serverless architecture** with **DynamoDB** and **S3**. Tech: **React.js**, **Python**, **AWS Lambda**, **DynamoDB**, **AI/LLM integration**.

- **Worker-AI (Multi-Agent Platform)** — Architected **distributed task orchestration system** with **FastAPI** backend, **PostgreSQL**, **Redis** caching, and **React.js** frontend. Implemented **async event-driven** processing with **SQS**-style message queues. Containerized with **Docker Compose**. Tech: **Python, React.js, PostgreSQL, Redis, Docker**.
- **Self-Hosted Cloud Infrastructure** — Provisioned **Linux server** with **Docker**-containerized services, **CI/CD pipelines**, and **automated deployments**. Hosts production apps including **Go microservices**, **Next.js frontends**, and **Python backends**. Tech: **Linux, Docker, Git, CI/CD, Security hardening**.

EDUCATION

Florida State University M.S. in Computer Science	Aug 2022 – May 2024 Tallahassee, FL
• Relevant Coursework: Distributed Systems, Advanced Database Systems, Cloud Computing, Data Mining	
SRM Institute of Science & Technology B.Tech. in Computer Science	Aug 2016 – May 2020 Chennai, India

CERTIFICATIONS & AWARDS

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