

# 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 a 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

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**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

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