

# Aditya Sugandhi

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## SUMMARY

Full-stack engineer with **5+ years** building production applications using **TypeScript, React/Next.js, and Node.js**. Expert in **zero-to-one development**, architecting **AWS serverless systems** (Lambda, DynamoDB, Step Functions), and integrating **5+ third-party APIs** at scale. Led **monolith-to-microservices migration** achieving **99.5% availability**. Established engineering standards, **CI/CD pipelines**, and **comprehensive testing practices** in fast-paced startup environments.

## TECHNICAL SKILLS

- **Frontend:** React 18/19, Next.js 14-15 (App Router), TypeScript, Tailwind CSS, shadcn/ui, Radix UI, Zustand, TanStack Query
- **Backend:** Node.js, FastAPI, Express, REST/GraphQL APIs, WebSocket, Supabase, PostgreSQL, MongoDB, Redis
- **Cloud (AWS):** Lambda, API Gateway, DynamoDB, S3, SQS/SNS, Step Functions, EKS, RDS, CloudWatch, Terraform
- **DevOps:** Docker, Kubernetes, GitHub Actions, CI/CD Pipelines, Feature Flags, Infrastructure-as-Code
- **Testing:** Jest, Vitest, Playwright, Unit/Integration/E2E Testing, TDD, Test Coverage Metrics
- **Integrations:** Third-party APIs (CRM, Voice AI, OAuth2/JWT), Webhooks, Event-driven Architecture

## WORK EXPERIENCE

- Software Developer**  
Florida State University

Nov 2024 – Present  
Tallahassee, FL

  - Architected **full-stack TypeScript applications** with Node.js backend and React frontend; built **3 production integration servers** for **Oracle DBMS, BACnet protocols**, and external APIs serving **15+ engineering teams**.
  - Developed **async microservices** processing **35k+ records** across **172+ networks** with **99.2% accuracy**; implemented comprehensive **test suites with 85% coverage**.
  - Designed **CI/CD pipelines** (GitHub Actions) for automated testing, code reviews, and multi-environment deployments; **reduced deployment time by 70%**.
  - Established **engineering standards**: code review processes, API documentation, testing requirements for cross-functional teams.
- Software Engineer**  
Florida State University

Jan 2023 – Aug 2024  
Tallahassee, FL

  - Built production **AWS data pipelines** (S3, EMR, Lambda) processing **1TB+ datasets** with automated ETL scheduling, error handling, and retry logic.
  - Deployed containerized services on **Kubernetes** with **99% uptime**; optimized throughput by **40%** through horizontal scaling and resource tuning.
  - Implemented **monitoring dashboards** (Grafana, Prometheus) with automated alerting; **reduced incident response time by 60%**.
- Software Analyst**  
Aspire Systems

Oct 2020 – Jul 2022  
Chennai, India

  - Led **monolith-to-microservices migration on AWS EKS**; architected event-driven services with API gateways achieving **99.5% availability** and **20% cost reduction**.
  - Designed **RESTful APIs** serving **10k+ requests/day** with OAuth2/JWT authentication, rate limiting, and comprehensive documentation.
  - Increased **deployment frequency 5x** through CI/CD automation; implemented **unit and integration testing pipelines**.

## PROJECTS

- **BookedFlow - AI Voice Agent Platform** [\[GitHub\]](#) — Built production **full-stack SaaS** with **Next.js 15**, TypeScript, React 18, Supabase. Features: 9-step config wizard with persistent state, real-time WebSocket call monitoring, **1,700+ line API client** with interceptors and error handling. Integrated **3 third-party systems**: VAPI voice AI, GoHighLevel CRM, OpenAI Realtime API. Architecture: **60+ components**, 22 custom hooks, 4 Zustand stores, multi-tenant with ownership verification.
- **Serverless Data Pipeline** [\[GitHub\]](#) — **Event-driven ETL** system using **AWS Lambda, S3, SQS, DynamoDB, Step Functions**. Processes **1000+ documents** with auto-scaling and retry logic. Infrastructure-as-code (Terraform); CloudWatch monitoring with custom metrics and alerting.
- **Enterprise Integration Server** [\[GitHub\]](#) — **Zero-to-one TypeScript/Node.js** integration platform connecting enterprise databases and external APIs. Function-calling interfaces, connection pooling, query optimization, comprehensive logging. Enables autonomous database operations for development teams.

## EDUCATION

- Florida State University**  
Master of Science in Computer Science  
B.Tech. in Computer Science

Tallahassee, FL  
Coursework: Distributed Systems, Advanced Databases, Cloud Computing, Software Engineering
- Aug 2022 – May 2024  
Chennai, India

**SRM Institute of Science and Technology**

## CERTIFICATIONS

- **AWS Solutions Architect** (2024) | **IJAST Publication**: Review Classification & False Feedback Detection