

AYUSH SAI NARAIN

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

BS/MS Dual Degree in Computer Science | Specialization in Machine Learning

August 2022 – May 2027

- Coursework: Data Structures & Algorithms, Databases, Computer Networking AI, ML, Algorithm Design, Game AI
- Honors: Highest Honors (Fall 2022 – Spring 2025)

EXPERIENCE

AT&T

Atlanta, GA

Software Engineering Intern

June 2025 – August 2025

- Built 3 React/Node dashboards monitoring 500+ microservices, cutting incident detection latency by 35% across 20+ teams
- Designed and optimized 15+ REST APIs, improving backend throughput by 18% and customer query speed by 22%
- Refined automated API health monitoring with 99% uptime using Prometheus and Grafana
- Refactored legacy Node.js services, reducing deployment times by 25% across 20+ agile teams

SmartPathAI

Atlanta, GA

Engineering Manager

August 2024 – Present

- Led a 10-engineer team building a generative AI platform for 2k+ students using OpenAI LLMs and Microsoft GraphRAG
- Boosted backend query speed by 40% using Redis caching, indexing optimization, and batched API requests
- Designed fault-tolerant message queues handling 10K+ API calls daily with near-zero downtime

Georgia Tech Research Institute

Atlanta, GA

Embedded Systems Software Intern

May – Aug 2024, Jan – May 2025

- Deployed Random Forest model achieving 98% accuracy on 1000+ mission flights utilizing real-time mapping tools
- Coded 500+ lines of embedded C++ improving real-time data throughput by 25% across aerospace telemetry pipelines
- Automated 85% of embedded software tests using Jenkins CI/CD, boosting deploy frequency by 60%
- Created modular firmware architecture, cutting code integration times by 30% across research teams

HipHop2020 Innovation Archive

Atlanta, GA

API/AI Team Lead

August 2024 – May 2025

- Architected an AWS-hosted SQL system for 500+ music artifacts, cutting DB query latency by 28% via schema redesign
- Streamlined metadata ingestion for 5k+ records via Discogs API, accelerating ingestion pipelines by 20%
- Developed role-based access control (RBAC) for secure API endpoints, increasing security posture

PROJECTS

Amazon Text Review Analysis (Python)

August 2024 – December 2024

- Built scalable ETL pipelines and LSTM models predicting Amazon review ratings with 87% accuracy over 5M+ reviews
- Constructed sentiment dashboards delivering 30% faster insights for actionable product reporting

Concert to Playlist System (JavaScript, React, Node.js) | Personal

July 2024 – October 2024

- Devised full-stack platform integrating Setlist.fm and Spotify API's, generating 1000+ personalized playlists with <1s real-time response
- Integrated OAuth 2.0 authentication and API caching layers, reducing third-party API load by 35% and increasing system resilience and uptime stability

SupportHub – Internal Mac Support Tool (Swift)

May 2024 – August 2024

- Implemented diagnostic tool reducing IT ticket resolution time by 40% for 70+ internal users
- Engineered real-time device health APIs, driving 30% faster ticket closure across support teams

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, C++, Swift, SQL (PostgreSQL, MySQL), PHP, HTML, CSS

Frameworks/Tech: React, Node.js, AWS, OpenAI APIs, LLMs, Jenkins, GraphRAG, Linux, Unix, Jira, Git, Docker, Redis

Security Clearance: Secret Level (2025 – Present)