

Yash Gandhi

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Fintech

Aug 2024 – May 2028

- Relevant Coursework: Data Structures & Algorithms, Applied Combinatorics, Linear Algebra, Differential Equations, Discrete Math, Computer Architecture, Object-Oriented Design, Human-Computer Interaction
- Organizations: AI@GT, Trading Club, iOS Club, GT Ramblin' Raas Dance Team (Captain)

TECHNICAL SKILLS

Programming: Java, Python, JavaScript, HTML, CSS, Assembly, SQL (Postgres), Typescript

Frameworks: React, Node.js, Flask, JUnit, Material-UI, FastAPI, Firebase, REST APIs, Git, Docker, yFinance

Certifications: AWS Cloud Practitioner (CLF-C02)

EXPERIENCE

Software Engineering Intern

Atlanta, GA

Joulea Energy

Mar 2026 – Present

- Automating a structured image-approval and multimodal labeling workflow by engineering a backend annotation platform using PostgreSQL, S3, and microservices that pairs image-level defect descriptions with segmentation metadata, **generating optimized ML-ready datasets for YOLO11 and Vision-Language model training**
- Reinforcing data streams and system access by implementing **a role-based access control framework** with three tiers, utilizing Postgres Row-Level Security and server-side authentication to prevent unauthorized modifications.
- Developing a computer vision pipeline that **projects annotations across paired RGB, thermal, and wide-angled drone imagery** using feature matching and homography transformations, **eliminating redundant labeling** and preserving spatial consistency through human-computer calibration and reprojection error validation.

Software Engineering Intern

Atlanta, GA

SKY Consulting LLC

Aug 2025 – Dec 2025

- Designed and deployed **cloud infrastructure** for enterprise analytics dashboards and CRM systems using AWS (EC2, S3, Lambda) and Terraform, **enabling real-time access to sales, and operational data** so business teams could generate reports, and make time-sensitive operational decisions without delays or system interruptions
- Built CI/CD pipelines using GitHub Actions and Docker, **automating testing and deployments to reduce release time by 40%**, allowing features to release without interrupting users or requiring manual intervention
- Optimized server and database performance using Node.js/PostgreSQL tuning and AWS CloudWatch to proactively resolve bottlenecks, **ensuring high availability** and reliability during peak application usage.

President

Suwanee, GA

Needs4Teens

July 2023 – May 2025

- Led large-scale community events, including two 1,000+ participant NAMI campaigns, by coordinating volunteers and mental health resources to bridge the gap between underprivileged families and essential support services
- Directed fundraising through social media campaigns and branded merchandise, executing strategies **to increase engagement** and donor participation, raising funds to sustain programs and reach more underserved youth groups

PROJECTS

Quantitative Breakout Predictor | *Pandas, scikit-learn, XGBoost, Alpaca, yFinance*

June 2026 – Present

- **Enhancing data preprocessing times by 40%** by building a high-performance historical price data processor that transforms raw cryptocurrency and stock OHLCV structures into technical analysis datasets using scikit-learn, effectively **optimizing multi-timeframe data inputs** for the real-time algorithmic parsing of market anomalies.
- **Reducing false-positive trade signals by 22%** by developing an XGBoost machine learning framework that scored breakout setups, maintaining a strict 1:3 risk-reward ratio across 5 years of historical backtest data.
- Accelerating signal generation to **under 15ms** by creating an **automated data ingestion engine** utilizing vectorized mathematical transformations, allowing the system to flag volume spikes and breakouts in real-time.

Event-Driven Multiplayer Engine | *Vite, React, Typescript, Firebase*

Dec 2025 – March 2026

- Built a fullstack multiplayer platform using React, Node.js, TypeScript, and Socket.io, implementing real-time synchronization so multiple users could interact with a **consistent shared state** without conflicts or desync issues
- Integrated Firebase **authentication** and state persistence, ensuring reliable reconnection and **cross-device continuity** to maintain application **session integrity** and consistently preserve user progress after disconnects.