

Rohan Appaji Malla

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Education

Georgia Institute of Technology, Atlanta, GA

Expected Graduation: May 2027

B.S. in Computer Science (Computer Architecture, Embedded Systems, AI)

Coursework: Computer Architecture, Processor Design, Operating Systems, Algorithms, Probability & Statistics

Experience

Docusign

San Francisco, CA

Software Engineer Intern

May 2026 - Aug 2026

- Built audit logging and version history for integration keys in C# and TypeScript, emitting diffs over gRPC
- Gave all Docusign developers and partners visibility into guest developer actions, with server-side filtering
- Wired Kubernetes microservices into the audit service over an Istio mesh; shipped via staged feature flags

BrightLink

Roswell, GA

AI Software Engineer Intern

May 2025 - Aug 2025

- Built a FastAPI and React ad platform whose deep-research LLM agents draft campaigns for 23 clients
- Automated multi-platform ad posting and A/B tests, built landing pages, and tracked per-source conversions
- Added caching to backend microservices, cutting data pipeline latency 40%, with Datadog monitoring

Georgia Tech

Atlanta, GA

CS 2340 Teaching Assistant (Software Development)

Jan 2025 - Dec 2025

- Led weekly code reviews for teams building full-stack Kotlin/Django apps, advising on architecture pre-launch
- Taught UI/UX design patterns and object-oriented design through hands-on reviews of each team's codebase
- Ran Agile sprint planning in JIRA and Confluence; coached CI/CD and PR hygiene with GitHub Actions

IBM

Remote

Quantum Machine Learning Researcher (Quantum Explorers)

Aug 2023 - Feb 2024

- Applied adaptive circuit training to hybrid quantum-classical AI models in Qiskit, speeding convergence 12%
- Built QML pipelines pairing quantum feature maps with classical neural nets, holding accuracy on noisy data
- Benchmarked hybrid models across noise levels, finding circuit-depth trade-offs that shaped the architecture

Massachusetts Institute of Technology

Cambridge, MA

Quantum Machine Learning Researcher

Jun 2023 - Jul 2023

- Implemented VQE in Q# and Qiskit, encoding Hamiltonians via Jordan-Wigner and tuning a UCCSD ansatz
- Matched the H2 ground-state energy (STO-3G, 4 qubits) to within 1e-8 Hartree in both, verified by full CI
- Extended the Q# pipeline to pyridine, loading Broombridge integrals into a 4-qubit active-space Hamiltonian

RadicalX

Cupertino, CA

Data Science Intern

Jul 2022 - Mar 2023

- Built segmentation pipelines in TensorFlow and scikit-learn, clustering customers by platform and demographics
- Cleaned and labeled 20K+ customer records, engineering location, platform, and demographic features
- Delivered dashboards of ML insights for non-technical stakeholders, driving a 15% lift in campaign response

Projects

BagWork | *AI resume tailoring platform*

Feb 2026 - Present

- Grew bagwork.ai to 750+ users on Next.js and AWS (RDS, pgvector, S3) with a Typst PDF microservice
- Built an agentic pipeline to scrape, embedding-rank, and rewrite resumes; LLM evals cut rewrite cost 5x

Nexus | *AI scheduling hub for school*

Aug 2025 - Present

- Built a Next.js 15 + Prisma app on Supabase Postgres syncing Canvas (REST, ICS) and Outlook via MS Graph
- Ran 5-minute pg_cron syncs and an OpenAI agent that schedules work blocks; Web Push and Resend alerts

Fixlexic | *Private bionic reading Chrome extension* | [GitHub](https://github.com)

Sep 2026

- Built a Manifest V3 Chrome extension for bionic reading (ADHD, dyslexia) with zero network access or tracking
- Batched DOM rewrites with requestIdleCallback + TreeWalker, and a MutationObserver for dynamic content

FinSight | *Agentic SEC filing analyst* | [GitHub](https://github.com)

Mar 2026

- Finalist at NVIDIA GTC 2026 "Agents for Impact" hackathon with a 7-node LangGraph SEC filing analyst
- Ran a self-terminating ReAct loop on Nemotron Super 49B, citing filings behind each BUY/SELL/HOLD call

Reaper | *Real-time course seat tracker for Georgia Tech and UGA* | [GitHub](#) *Oct 2024 - Jan 2026*

- Built a serverless fan-out (EventBridge, SQS, Lambda, DynamoDB) checking every tracked CRN concurrently
- Licensed a <50ms tracking API to 3 other schools and grew the React PWA to 1,700+ users and \$8K ARR

Aurex | *No-code quant strategy and backtesting platform* *Aug 2025 - Dec 2025*

- Built Django REST and FastAPI services for real-time backtesting and simulation across 30+ no-code strategies
- Led a team of 8 on Alpaca and Robinhood integrations; LangChain agents turn plain English into strategies

DeepONet | *Neural operator learning for PDEs* *Mar 2025 - Apr 2025*

- Won the SciML track at the GT x Emory Scientific ML Competition with a PyTorch DeepONet neural operator
- Trained branch and trunk networks to learn nonlinear PDE solution operators, generalizing to unseen inputs

Spotify Analytics App | *Spotify Wrapped remake (CS 2340, team of 5)* | [GitHub](#) *Oct 2024 - Dec 2024*

- Built a Django app on the Spotify Web API with the OAuth 2.0 auth-code flow and rotating refresh tokens
- Designed the Django ORM models and views behind saved recaps, the recap library, and listening games

HIVE Multiprocessor | *Patent-pending CPU architecture (#63533037)* *Jan 2024 - Sep 2024*

- Designed a multiprocessor that decouples front ends from back ends so any thread can issue to any free core
- Invented RAPID dispatch: a Fill Check stage reads ROB and issue-queue occupancy to route around stalls

FRCScout | *Match-scouting app for FRC Team 2473* | [GitHub](#) *Dec 2022 - Apr 2023*

- Replaced a long, scroll-heavy form with a phone-first Flutter/Dart app for fast entry during 3-minute matches
- Shipped via TestFlight with Firestore sync; used by 30+ scouts across 200+ matches at regional competitions

Honors & Awards

Olympiads: 2x AIME Qualifier (Top 2% of 300K+), USA Computing Olympiad Gold (Top 10% of 10K+)

Finance: Financial Modeling World Cup (145th/3K+, 11th Under 25), Cornell Trading Competition (6th)

Excel Esports: Team USA player, Top 100 of 5K+ in every 2026 MEWC contest, 4th place MECC (700+)

Hackathons: 7 podium/finalist finishes, \$5K+ in prizes; ROBOHackIT @ Texas A&M (1st), RadicalX Hacks (1st)

Service: 3x Presidential Volunteer Service Award (Gold); founded K-8 coding classes (3K+ students, 68 tutors)

Technical Skills

Languages: Python, C++, Java, TypeScript, JavaScript, C#, Golang, Rust, SQL, R, MATLAB, Bash

Backend & Cloud: .NET Core, Django, REST APIs, gRPC, PostgreSQL (pgvector), Redis, DynamoDB, AWS

AI/ML: PyTorch, TensorFlow, scikit-learn, LangChain, LangGraph, OpenAI API, Amazon Bedrock, Qiskit

Tools: Git, Linux, Docker, Kubernetes, GCP, CI/CD, Firebase, NumPy, Pandas, Figma, Typst, Claude Code

Interests: Trading @ GT, Alpha Kappa Psi, Speedcuber (<25s), Crazy Taxi (Top 10 Arcade), Poker, Seahawks Fan