

Jacob Murrah

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Education

Georgia Institute of Technology

M.S. in Computer Science (Specialization in Machine Learning)

GPA: 4.00

January 2026 – December 2028

Auburn University

B.E. in Software Engineering (Certificate in Artificial Intelligence)

GPA: 3.93

August 2021 – December 2025

Experience

AT&T

Software Engineer I

Atlanta, GA

January 2026 – Present

- Incoming January 2026.

Software Engineer Intern

June 2025 – August 2025

- Launched a React/Spring Boot inventory dashboard serving 4000+ stores, cutting KPI audit time for store owners.
- Architected a MongoDB data pipeline condensing 200,000+ SKU records daily, decreasing processing time by 87.3%.
- Developed 9 React components sourcing data from 4 Spring Boot endpoints, delivering real-time inventory insights.

Adtran

Software Engineer Co-op III

Huntsville, AL

August 2024 – December 2024

- Spearheaded API development in Python with AWS Lambda and DynamoDB, serving network KPIs to 50+ clients.
- Eliminated obsolete AWS Lambda resources, reducing function count by 32.8% and trimming monthly runtime cost.
- Overhauled API endpoints by refactoring 6000+ lines across an Angular app, easing code maintenance and costs.

Software Engineer Co-op II

January 2024 – May 2024

- Delivered a Python/JavaScript directory linking 78+ GitHub orgs with 15 Jenkins controllers, slashing lookup time.
- Built Grafana dashboards for 3 internal tools with SQL and Python, displaying live KPIs for data-driven decisions.
- Automated Jira autolinks by creating a GitHub App in Python, boosting ticket traceability across 210+ repositories.

Software Engineer Co-op I

May 2023 – August 2023

- Built a RADIUS Relay testbed with an automated Python validation suite, enabling live 802.1X connectivity checks.
- Stabilized all flaky GPON integration tests, 23.5% of the suite, across 2 card models, lifting the pass rate to 100%.
- Introduced the initial 11 VoIP unit tests in Python, verifying server configuration logic and boosting CI/CD reliability.

Projects

LeetCode Repetition Extension | Go, TypeScript, HTML/CSS, SQL, AWS

- Launched a LeetCode extension queuing problems for spaced review, boosting retention for technical interviews.
- Architected a Go API using AWS Lambda and API Gateway, setting per-key limits via usage plans for 5 functions.
- Integrated OAuth2 sign-in, storing user IDs and problems in Supabase SQL tables to sync data across browsers.

Discord Bouncer | Python, Docker, Google Cloud, Stripe

- Delivered a Discord bot enabling instant premium access for members through automatic paid-role assignment.
- Containerized the bot with Docker and hosted on a Google e2-micro compute instance, running 24/7 at zero cost.
- Secured paid channels via Firestore listeners and a nightly cron job, auto-revoking expired roles to block access.

Technical Skills

Languages: Python, TypeScript, Java, Go, JavaScript, HTML/CSS, SQL, NoSQL

Libraries & Frameworks: React, NextJS, Angular, Spring Boot, Flask, PyTorch, Scikit-learn, pandas, NumPy, Matplotlib

Developer Tools: AWS, Google Cloud, MongoDB, Supabase, Postman, Docker, Linux, git, GitHub, VS Code

Concepts: REST APIs, Cloud Architecture, Microservices, Containerization, CI/CD, DevOps, Machine Learning, Agile