

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 Spring 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, Go, Java, 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