Jacob Murrah

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Education

Georgia Institute of Technology   **GPA: 4.00**
M.S. in Computer Science (Specialization: Machine Learning)   *January 2026 – December 2028*

Auburn University   **GPA: 3.93**
B.E. in Software Engineering (Certificate: Artificial Intelligence)   *August 2021 – December 2025*

Experience

AT&T   **Atlanta, GA**
Software Engineer I   *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   **Huntsville, AL**
Software Engineer Co-op III   *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