

Jacob Murrah

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Education

Georgia Institute of Technology <i>M.S. in Computer Science (Specialization in Machine Learning)</i>	GPA: 4.00
	<i>January 2026 – December 2028</i>
Auburn University <i>B.E. in Software Engineering (Certificate in Artificial Intelligence)</i>	GPA: 3.93
	<i>August 2021 – December 2025</i>

Experience

AT&T <i>Software Engineer I</i>	Atlanta, GA
	<i>January 2026 – Present</i>
• Incoming January 2026.	
<i>Software Engineer Intern</i>	<i>June 2025 – August 2025</i>
• 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 <i>Software Engineer Co-op III</i>	Huntsville, AL
	<i>August 2024 – December 2024</i>
• 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.	
<i>Software Engineer Co-op II</i>	<i>January 2024 – May 2024</i>
• 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.	
<i>Software Engineer Co-op I</i>	<i>May 2023 – August 2023</i>
• 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 <i>Go, TypeScript, HTML/CSS, SQL, AWS</i>	
• 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 <i>Python, Docker, Google Cloud, Stripe</i>	
• 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