Jacob Murrah

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Education

Auburn University   **GPA: 3.93**
Bachelor's, Software Engineering   *August 2021 – December 2025*
- **Coursework:** Artificial Intelligence, Machine Learning, Data Structures & Algorithms, Databases, Networking, Statistics

Experience

AT&T   **Atlanta, GA**
TDP Software Engineer Intern   *June 2025 – Present*
- Launched a **React**/**Java** inventory dashboard serving **4000+** stores, cutting KPI audit time for authorized retailers.

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 directory using **Python/JS** that links **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, JavaScript, 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.

🔗 **Valorant Match Predictor** | *Python, PyTorch, pandas, Beautiful Soup*
- Engineered a complete **web scraping** and **ML** pipeline, enabling reproducible **audits** of Valorant sportsbook odds.
- Scraped multi-season Valorant stats from **vlr.gg**, aggregating **370+** matches into **CSV** datasets for model input.
- Developed an **8-dim** power-rating encoder feeding into a **MLP** in **PyTorch**, predicting match odds from team stats.

🔗 **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.

Honors & Achievements

- 20x Top-100 Fortnite Tournament Finishes, $6775 Prizes
- 3rd Place, Adtran Spring 2024 Hackathon
- Qualified 2023 RedBull Campus Clutch Delta Region LAN
- 5x Dean's List

Technical Skills

Languages: Python, TypeScript, Go, Java, JavaScript, HTML/CSS, SQL
Libraries & Frameworks: React, Angular, Spring Boot, Flask, PyTorch, Scikit-learn, pandas, NumPy, Matplotlib
Developer Tools: git, GitHub, VS Code, AWS, Google Cloud, Azure, Postman, Jenkins, Docker, REST APIs, CI/CD