

JACOB MURRAH

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EDUCATION

Auburn University

Bachelor's, Software Engineering

August 2021 – December 2025

GPA: 3.91

EXPERIENCE

AT&T

TDP Software Engineer Intern

Atlanta, GA

June 2025 - August 2025

- Leveraging Python, SQL, and AWS to develop innovative solutions that enable global connectivity.

Adtran

Software Engineer Co-op III

Huntsville, AL

August 2024 - December 2024

- Optimized AWS infrastructure by removing unused Lambda functions, reducing total Lambda functions by 32.8% which contributed to cost savings and a more streamlined serverless architecture.
- Pioneered the development of an advanced TFT touchscreen router interface by developing C++ code for an Arduino, providing critical insights that guided strategic decision-making for future product development.
- Spearheaded the implementation of a customer-facing API service using Python, integrating with a DynamoDB database to provide streamlined information transfer and enhanced customer experience.
- Led an API endpoint migration by refactoring 6000+ lines of TypeScript in an Angular application, enabling cost optimization through legacy infrastructure elimination.

Software Engineer Co-op II

January 2024 - May 2024

- Accelerated teams in locating Jenkins jobs and their associated EC2 instances by creating a fully tested internal website using Python and JavaScript/HTML/CSS, supporting a smooth transition to a self-managed CI/CD environment.
- Enabled the automatic configuration of GitHub autolinks for every repository within an organization by creating a fully tested GitHub app in Python, allowing users to link to the associated story/issue in commits and PRs.
- Captured and summarized metrics of 3 internal tools, as measured by the creation of Grafana dashboards, by utilizing SQL and writing Python code and tests which facilitated data-driven decision making.
- Improved developer efficiency and command-line experience by writing fully tested Bash completions for the commands of an internal dependency manager tool.

Software Engineer Co-op I

May 2023 - August 2023

- Established and verified RADIUS server connectivity by building and configuring a testbed for RADIUS Relay, documenting the provisioning and verification steps, and developing Python tests.
- Improved test stability across GPON cards by refactoring unstable Python tests to ensure they ran and passed on various testbeds, achieving reliable testing performance.
- Ensured accurate VOIP server configuration by writing Python tests, resulting in enhanced GPON product reliability through increased test coverage.
- Improved network documentation by drawing detailed network diagrams for 8 GPON testbeds, mapping connections to switches and ONTs, and labeling the IPs of connected devices

PROJECTS

LeetCode Repetition Web Extension | Go, JavaScript, HTML/CSS, Docker, Google Cloud, SQL

- Developed a web extension to schedule repetitions of completed LeetCode problems, featuring an SQL database and a Go REST API deployed to Google Cloud using Docker, which facilitates users in technical interview preparation.

Discord Bouncer | Python, Docker, Google Cloud, Stripe

- Deployed a fully tested Python Discord bot to Google Cloud using Docker which utilizes Stripe payments to assign roles, enabling the Discord server owner to customize member access.

TECHNICAL SKILLS

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

Libraries & Frameworks: pandas, NumPy, Matplotlib, Flask, Angular

Developer Tools: git, GitHub, Docker, AWS, Google Cloud, Postman, Jenkins, REST APIs, CI/CD