# Aaron Luu

aluu31@gatech.edu • www.linkedin.com/in/aaron-luu123 • https://gdawerty.github.io/Portfolio/ • Atlanta, GA

## EDUCATION

*Georgia Institute of Technology, College of Computing* — *Atlanta, Georgia*
**Bachelor of Science, Computer Science** GPA: 3.9 — Fall 2024 - Spring 2027

## SKILLS

**Technical Skills:** Java, Python, React, C/C++, SQL, HTML, CSS, Databricks, AKS, Pandas, MLflow, Git/Github, Docker, APIs
**Relevant Coursework:** Data Structures and Algorithms, Web Design, Data Analytics, Databases, Machine Learning, Robotics
**Interests:** Working out, Listening to music, Thrifting, Skiing, Spikeball, Podcasts, Hiking, Adventuring, Trying new Things

## WORK EXPERIENCE

***Data Engineering Intern - AT&T*** — *Summer 2025*

- Developing and deploying enterprise-level software platforms through CI/CD pipelines, Docker, Kubernetes, data pipelines with Databricks/Snowflake, and AI/ML models for data analytics.
- Creating microservices-based applications that reflect software engineering principles to solve practical business challenges while aligning with industry standards for cloud computing, container orchestration, and data-driven decision-making.

***Undergraduate Teaching Assistant - CoC at Georgia Tech*** — *December 2024 - Present*

- Teaching Assistant for CS 2340, formally known as Objects and Design, a Computer Science project-based class taken as a core requirement for College of Computing majors. Led 3 teams to develop full-scale projects deployed on the web.
- Assisting in the understanding of software engineering principles, such as the development process, testing, design patterns, and object-oriented design for student teams along with any help on web development projects and evaluations.

## RESEARCH & PROJECTS

***The Robot Collective - VIP Undergraduate Research Assistant*** | *Docker, ROS, Python, Arduino, C++* — *Fall 2024 - Present*

- Assembled a second robot with a multi-agent system and multi-robot path planning algorithm by implementing ROS Nodes and using A* path Algorithms written in Python, Along with motion control written in C++.
- Created a PID control and a collision detection algorithm to prevent Robot path interference using ROS and Python.

***FakeAI - AT&T Project*** | *Azure, Databricks, OpenAI, SQL, MLflow, Docker, React, Flask, APIs* — *Summer 2025*

- Full-stack engineer in project to detect fake news based on article URLs. Developed APIs to scrape data and analyze articles.
- Trained ML model using TF-IDF vectorization, FastText word embeddings, and logistic regression and random forest classifiers to receive an 80% prediction accuracy on news articles.
- Configured Docker Images to deploy on Azure Cloud, Inserted, cleaned and visualized data on Databricks, implemented JWT, rate limiting, logs of errors, and GenAI to summarize and assist in analysis of articles.

***SpotifyRoasted - Project*** | *Django, SQLite, HTML, CSS, JavaScript, Spotify API, Grok, Pycharm* — *Fall 2024*

- Full stack developer in a team project that created a website that analyzes a Spotify user library and outputs an in-depth analysis of the music (wrapped) in the form of dry humor using Grok, Django framework, and Spotify API.
- Utilized Git commands and Github, implementing front end design using HTML, CSS and JS to create an aesthetic and vibrant wrapped summary of the music. Programmed in Python for storing wraps and Spotify information.

***AI Journaling Therapist - HackGT Project*** | *Next.JS, HTML, Tailwind CSS, Firebase, Flask, VS Code* — *Fall 2024*

- Full-stack developer in a hackathon project creating a journaling app with AI-driven emotional and mood analysis.
- Established a database for user data and integrated Google Authentication using Firebase.
- Utilized TypeScript for website design, Flask for the GPT AI model, and GitHub for collaboration.

***BAC Lock Box - Project*** | *Arduino, C++, Microcontrollers, sensors, hardware* — *Spring 2024*

- Created a 3D-printed box that one stores their car keys in before drinking, locking the box to prevent DUI's.
- A BAC sensor analyzes one's breath, sending data through an algorithm to determine sobriety levels. Depending on the sobriety level that the code outputs, a motor will rotate, locking the box or unlocking it for access to one's keys.
- Utilized Solidworks for CAD of the model, Arduino for the code (C++), and microcontrollers for locking mechanism.

## AWARDS

***Capital One - First Generation Focus Program*** — *Summer 2025*

- Selected into a 100 person cohort, learned from professional development workshops, connected with Capital One associates across different roles, and gained a deeper understanding of the company's values and innovative work culture.

***Georgia Institute of Technology - EMBARC Program*** — *Spring 2025*

- Accepted into a 18 student cohort mentorship program to develop communication skills and network with professionals.