

# Jonathan Groberg

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## EDUCATION

### University of Florida

Dec 2025

Bachelor of Science in Computer Science | Minor Business Administration | GPA: 4.00/4.00

Gainesville, FL

- Leadership: Grow with Google Scholar, 3X Hackathon Winner, Eagle Scout
- Clubs: Open Source Club, ColorStack, Society of Professional Hispanic Engineers
- Selected Coursework: Enterprise Software Engineering, Intro to VR, AI in Science, Python for Biology

## EXPERIENCE

### Software Engineer Co-Op

Feb 2024 – Oct 2024

Hillsborough County Sheriff's Office, the 5th largest sheriff's office in the U.S.

Tampa, FL

- Developed full-stack application (end-to-end ownership), serving **1000+** law enforcement agents with **C#** back-end featuring active directory group permissions, **4 SQL** stored procedures, and **Vue** front-end using **TypeScript**, **Quasar**, and unit testing with **Vitest**, replacing paper submission and approval process
- Created **5** web components in a team environment for public site, achieving **100/100** Lighthouse score with **TypeScript**, **Astro**, and **Tailwind CSS** while adhering to ADA guidelines and modern SEO practices.
- Upgraded **Vue2 + .NET6** application to **Vue3 + .NET8**, reducing codebase size by **30%** while also improving documentation
- Pushed to production auditing feature for full-stack **C#**, **Typescript**, **SQL**, and **Vue** application, achieving **93-96%** accuracy and reducing manual review from 100% to 3-7%, saving **100+** monthly hours across **50+** unique reports.

### Computer Science & Mathematics Tutor

Sep 2022 – Jan 2024

Infinite Edge Learning Center & CodeFu

Hybrid Tampa, FL

- Created and implemented 10-15 personalized lesson plans involving advanced math, **Java**, and **Python** each week to facilitate mastery of SAT/ACT math and AP Computer Science, leading to **85%** of students earning AP scores of 3 and above

### Data Analyst Intern

Jul 2021 – Dec 2021

The Church Of Jesus Christ Of Latter Day Saints

Taichung, Taiwan

- Allocated \$24,000 yearly advertising budget and created automated reports querying data from employee database with **SQL** and Facebook Pages REST API using **Python**, resulting in an average **20%** cost-per-click across ad campaigns

## PROJECTS

### Open Source Contributor | Python, C#, Gnome Linux, Ubuntu Linux, Git

June 2020 - Present

- Developed features for 3 **Ubuntu Budgie** apps using **Python** contributing to repository's growth to over **157** GitHub stars
- Contributed to **Gnome Developer Documentation's** example implementations of **GTK** in **JavaScript** desktop applications, fixing errors and adding new functionality with **6 pull requests** accepted into the main branch
- Developed **GTK** application displaying live cryptocurrency ticker prices on the desktop and top bar from the **Binance API**

### KayEcho | 1st @ Georgia Tech AI hackathon | RAG, LLM (Anthropic), React, Astro, Tailwind, Python, MongoDB

October 2024

- Designed **LLM+RAG** architecture in collaboration with back-end engineer for social networking tool inspired by the *Black Mirror's* *Hang the DJ* and Google's *NotebookLM*, designed to facilitate networking through simulated audio and text conversations winning **1st** out of **150+** projects
- Coordinated team of 4, handled automated deployment, merge conflicts, and pitched project to judges in under 24 hours winning **automatic** acceptance to the Georgia Tech's Startup Exchange Fellowship and Startup Launch

### Fluencia | 1st in Category @ ShellHacks Miami | LLM (Gemini), RAG, Tailwind CSS, React

Sep 2024

- Pitched project, managed team of 4, and designed architecture for AI Choose Your Own Adventure story based on learned vocabulary to provide an immersive experience in context, winning first in category out of **400+** projects in **36** hours
- Designed **API specification** and automated deployment for front-end written in **React**, **Tailwind**, and **Typescript**

### Community Link | 1st @Morgan Stanley CodeToGive Hackathon | LLM (Gemini), React, Python, Vercel

Aug 2024

- Managed team of 7, developing safe and inclusive platform for Community Restoration Project to enhance social capital via event, reporting, and community management, AI flyer generation and content moderation, winning **1st out of 15 teams**
- Developed front-end and setup automated deployment to Vercel using **React**, **Tailwind** and **Astro** and **Google Gemini**

## SKILLS

**Languages:** Typescript, C#, C++, Python, SQL, HTML, CSS

**Frameworks/Libraries:** Vue, React, .NET, Astro, Nextjs, Bootstrap, TailwindCSS

**Tools/Technologies:** LLMs, RAG, Git, Linux, Postman, REST-API, Agile, SQL Server Management Studio