

# Jonathan Groberg

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## EDUCATION

### University of Florida

Bachelor of Science in Computer Science | Minor Business Administration | GPA: 3.95/4.00

Dec 2025

Gainesville, FL

- Leadership: 3X Hackathon Winner, Grow with Google Scholar, Georgia Tech Startup Exchange Fellowship, 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 Intern

May 2025 – Sep 2025

Google

San Bruno, CA

- **Led end-to-end launch into production** of high performance camera effect for **YouTube Shorts**, from technical design, collaboration with UX/PM, launch docs, and deployment to **1B+** users. The feature achieved a 60fps experience with **Three.js**, **TypeScript**, and **Jasmine**, driving lift in user engagement.
- Engineered the audio detection node for the **effect maker tool**, enabling creators to build sound-reactive camera effects for the first time. Drove the project from initial concept through design approval and final implementation.
- Built **4 unit tested reusable components**, including a rule-based generation library and a virtual on-screen keyboard, for the public facing effect maker tool reducing the development time for all future effects requiring similar functionality.
- Accelerated the team's adoption of AI by serving as a 1 of 3 key early contributor to the foundational best-practices guide for Large Language Model (LLM) integration

### Software Engineer Intern

Jan 2025 - May 2025

Fintech, facilitates 39% of U.S. alcohol sales

Tampa, FL

- Deployed self-upgrade feature to **C#** backend used by **260,000+ retailers and 7,500+ manufacturers**, thereby eliminating lengthy and manual sales rep and customer service process to reduce user friction.
- Implemented and shipped **3 fullstack user stories** for CRM application using **NodeJS + Express** Backend and **Angular + Typescript** Frontend as well as unit tests ensuring 100% code coverage.

### 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+** users with **C#** back-end, **4 SQL** procedures, **Vue** front-end using **TypeScript**, **Quasar**, and **Vitest** unit testing to replacing paper submission and approval process
- 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.
- 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.

### Computer Science & ACT/SAT Tutor

Sep 2022 – Jan 2024

Infinite Edge Learning Center & CodeFu

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 data visualization tool 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

- 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** 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**

**KeyEcho | 1st @ Georgia Tech AI hackathon | RAG, LLM (Anthropic), React, Astro, Tailwind, Python, MongoDB**      October 2024

- Designed LLM+RAG architecture for social networking tool inspired by the *Black Mirror's Hang the DJ* and Google's NotebookLM, facilitate networking through simulated audio and text conversations winning **1st out of 150+** projects
- Built and designed frontend using Figma, **Next.js, React**, TailwindCSS
- 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

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

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

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