

# Alan Gregory

Houston, TX | 346-381-5626 | [gregoryalan2005@gmail.com](mailto:gregoryalan2005@gmail.com) | [linkedin.com/in/thealangregory](https://linkedin.com/in/thealangregory) | Open to Relocation

## EDUCATION

### University of Houston

Bachelor of Science in Computer Science

GPA: 3.7

Expected May 2027

Algorithms and Data Structures, C++ Programming, Database Systems

## EXPERIENCE

### NASA

May 2025 – Present

Software Engineering Intern

Houston, TX

- Migrated C++ apps to **ASP.NET** and refactored **180+** files, resolving **300+ build warnings**
- Optimized **SQL** Server interactions by refactoring **LINQ** queries, improving data processing speed by **25%**
- Implemented new UI components in **ASP.NET/C#**, improving usability for **100+ engineers**
- Maintained **CI/CD** pipelines via **GitLab** and **Subversion**, ensuring zero downtime

### NASA

Oct 2024 – Apr 2025

Software Engineering Intern – SharePoint & PowerApps

Houston, TX

- Migrated **12+ legacy SharePoint sites** to **SharePoint Online** improving usability for **200+ engineers**
- Rebuilt **8 internal tools** in **PowerApps** using interactive **UI** components with **PowerAutomate** and **PowerFX**, reducing manual processing time by **50%**

### University of Houston

Aug 2024 – May 2025

Undergraduate Teaching Assistant

Houston, TX

- Conducted **1 on 1** support and **240+** office hours to over **400 students** learning **Python** and **C++**
- Provided feedback for object-oriented design projects, enhancing student comprehension and reducing error rate.

## PROJECTS & LEADERSHIP

### T4Music | Next.js, TypeScript, AWS S3, MySQL

March 2025

- Built a full-stack streaming platform handling **1,000+ concurrent** users with content and playback
- Integrated **AWS S3** for scalable song storage and implemented custom file upload logic
- Designed modern UI with **Next.js** and **Tailwind**, delivering fast, responsive experiences

### Jupyter Copilot | TypeScript, JupyterLab

June 2024

- Developed a code suggestion extension for **JupyterLab**, used by **115+ active users**
- Forked the **VIM Copilot** plugin and adapted it for notebook environments with tab completion and **IntelliSense**
- Implemented GitHub **OAuth** to validate active Copilot subscribers within the extension

### CommuteTimeTeller | Python, Google Maps API, Twilio, AWS EC2

September 2023

- Created an automated daily texting service to report commute time using **Google Maps API**
- Deployed on an **AWS EC2** instance for continuous **24/7** operation and daily **SMS** delivery at **7 AM**

### Teams Director, Advanced Track

May 2024

Code Coogs

Houston, TX

- Led meetings and organized project deliverables across **7 teams** and **100+ members**
- Collaborated with **UH CUES** on a mobile job-marketplace app for **Nigeria**, focused on employment access

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, HTML/CSS

**Frameworks/Libraries:** React, Next.js, Tailwind, Three.js, Pandas, NumPy, Matplotlib

**Tools:** Git, Linux, AWS, MySQL, Arduino, CAD, RESTAPI

**Concepts:** OOP, Parallel Computing, Machine Learning