

Alan Gregory

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

EDUCATION

University of Houston

Bachelor of Science in Computer Science

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

GPA: 3.7

Expected May 2027

EXPERIENCE

NASA

Software Engineering Intern

May 2025 – Present

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

Software Engineering Intern – SharePoint & PowerApps

Oct 2024 – Apr 2025

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

Undergraduate Teaching Assistant

Aug 2024 – May 2025

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

Code Coogs

May 2024

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