

# Carson Smith

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## EDUCATION

### The University of Texas at Dallas

*Bachelor of Science in Computer Information Systems, Minor in Cybersecurity*

Richardson, TX

Aug. 2024 – Present

### Allen High School

*Foundation High School Program, Distinguished Level of Achievement*

Allen, TX

Aug. 2020 – May 2024

## EXPERIENCE

### Co-Founder, QA Manager

*CS\_Squared*

May 2024 – Present

Allen, TX

- Tested, debugged, and approved all code before deployment
- Wrote and maintained a collection of automated test scripts using Python to ensure proper functionality of all code
- Ensured best practices were followed in code development and deployment
- Served as a liaison between the development team and other departments to ensure proper communication
- Spearheaded efforts to ensure standardization of code and documentation early in the company's development

### Back-End Developer

*Allen STEAM Life App*

August 2023 – May 2024

Allen, TX

- Utilized Amazon AWS to host the backend of the app
- Managed various databases using DynamoDB and RDS store user data and app information
- Maintained communication with project manager to ensure app and server security
- Maintained communication with front-end developers to ensure proper data flow and app functionality

## PROJECTS

### Petrophysics Inc. Catalog Rewrite | *TypeScript, SQL/SQLite, Pocketbase, React*

July 2024 – Present

- Rewrote the Petrophysics Inc. seismic data catalog to improve performance and user experience
- Utilized Pocketbase to manage the database and improve data retrieval times
- Developed a React front-end to display the catalog and allow users to search for seismic logs and velocity surveys
- Collaborated with web developers from CS\_Squared in order to smoothly implement the catalog on the website

### Personal Website | *HTML, Node.js, Tailwind CSS, Astro, TypeScript, React*

July 2024

- Rewrote my personal website at [cart0nn.github.io](https://cart0nn.github.io) in order to update its content and improve its design.
- Utilized Astro to generate static pages and improve performance.
- Utilized Tailwind CSS to style the website and improve responsiveness.
- Implemented a projects page to showcase my work and experience.

### NASA Hunch Medical Inventory | *Python, SQLite, Linux, Raspberry Pi*

March 2024 – April 2024

- Developed a system to operate a mechanical arm to dispense medical supplies and an optical inventory detector
- Utilized the SQLite library to generate and manage a database of inventory information
- Maintained communication with mechanical engineer to ensure proper operation of the system
- Qualified as a NASA Hunch finalist and presented the project to NASA engineers and astronauts

## TECHNICAL SKILLS

**Languages:** LaTeX, HTML/CSS, Java, JavaScript, TypeScript, Python, SQL/PartiQL

**Frameworks:** Django, Flask, React, Tailwind CSS, Astro, WordPress

**Developer Tools:** Docker, Git/GitHub, Node.js, Vite, VS Code

**Libraries:** Matplotlib, NumPy, NLTK, OpenCV, Pandas, SQLite, Tkinter

**Operating Systems:** Linux (Arch, Debian, Kali, RPi OS, Ubuntu), Windows 8/10/11

**Technologies:** Amazon AWS, UEFI, VirtualBox, VMware

**Productivity:** Microsoft Office, Google Workspace, GitHub Projects

## CREDENTIALS

**CompTIA Security+ | *In-Progress***

August 2024

**CompTIA A+ | *ID: COMP001022565935***

July 2024

**AP Scholar with Distinction**

May 2023