

# Carson Smith

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## EDUCATION

### The University of Texas at Dallas

*B.S. in Computer Information Systems and Technology, Minor in Cybersecurity*

Richardson, TX

Aug. 2024 – May 2027

## EXPERIENCE

### Information Technology Engineer

*Comet Robotics at UT Dallas*

Richardson, TX

Oct. 2024 - Present

- Member of the CROUTON Committee, a leadership team responsible for maintaining the club's infrastructure
- Spearheaded a project to modernize, optimize, and organize, the club's networks and servers.
- Developed a new member portal, reducing onboarding time by 50% and officer workload by 23%.
- Implemented a CI/CD pipeline for the club's codebase, reducing deployment time by 80%

### Contract Full-Stack Developer

*Petrophysics, Inc*

Plano, TX

Jul. 2024 - Present

- Developed a new seismic data catalog, reducing data retrieval time by 97%
- Modernized the front-end, increasing user satisfaction by 57%
- Engineered a Pocketbase backend to maintain sub-100ms response time for all queries

### Co-Founder, Backend Developer

*CS\_Squared*

Allen, TX

May 2024 - Present

- Maintained an Amazon AWS backend for our flagship product, ensuring 99.99% uptime
- Responded to incidents and pushed bugfixes within 24 hours of discovery
- Standardized code practices, reducing developer onboarding time by 80%

### Back-End Developer

*Allen STEAM Life App*

Allen, TX

Aug. 2023 - May 2024

- Deployed the backend on Amazon AWS, maintaining 99.99% uptime
- Optimized database performance using DynamoDB, maintaining response times less than 100 ms
- Collaborated with the project manager to implement robust security measures, achieving zero security breaches
- Worked closely with front-end team to ensure reliable data flow between front and back-end

## PROJECTS

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

Jul. 2024 – Present

- Developed a dynamic React front-end for streamlined searching of seismic logs and velocity surveys
- Performed independent research into the petroleum industry in order to optimize the tool for industry professionals

### Comet Robotics Infrastructure Rework | *Docker, Hyper-V, GitHub, Shell, Linux*

Oct. 2024 – Present

- Re-organized, secured, and optimized the club's on-prem and cloud infrastructure
- Implemented Docker across the club's services, allowing for easy deployment and monitoring
- Leveraged Active Directory to manage authentication across the club's systems, including 802.1x and web auth

### Self-Hosted Email Server | *Linux, Shell, SMTP, IMAP, Docker*

Aug. 2024 – Sep. 2024

- Deployed and configured an email server, ensuring 99.99% uptime and complete reliability
- Implemented SPF, DKIM, and DMARC protocols, achieving 100% deliverability for outgoing emails
- Drove a 66% reduction in reliability on third-party email services

## TECHNICAL SKILLS

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

**Frameworks:** Django, Flask, React, Vite

**Developer Tools:** Git, GitHub, JetBrains IDEs, Visual Studio, Node.js

**Operating Systems:** Linux, Windows 8/10/11, MacOS, iOS, Android

**Technologies:** Amazon AWS, Docker, Hyper-V, VMware, nginx, Oracle Cloud

## CREDENTIALS

**CompTIA A+ | ID: COMP001022565935**

Jul. 2024