

# 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%

**Co-Founder, DevOps Developer**  
*CS\_Squared*

Allen, TX  
*May 2024 - Present*

- Maintained an Amazon AWS EC2 instances and VPC for our flagship product, ensuring 99.99% uptime
- Developed a Prometheus and Grafana monitoring stack, reducing incident response time by 50%
- 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

**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

**CS\_Squared Prometheus Monitoring Stack** | *EC2, Linux, Shell, Prometheus, Grafana*

*Oct. 2024 - Nov. 2024*

- Deployed a monitoring stack with Prometheus to track the company's API endpoints
- Developed custom alerts with AlertManager and dashboards with Grafana to monitor endpoints
- Integrated the monitoring stack with the club's CI/CD pipeline for automatic alerts on failed builds

**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