Carson Smith

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EDUCATION

The University of Texas at Dallas   Richardson, TX
B.S. in Computer Information Systems and Technology   *Aug. 2024 – May 2027*

EXPERIENCE

Information Technology Engineer   Richardson, TX
Comet Robotics at UT Dallas   *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 Engineer   Allen, TX
CS_Squared   *May 2024 - October 2024*
- Maintained 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, TX
Allen STEAM Life App   *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 - Oct. 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 company'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