

# Andrew Hossack

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B.Sc. Computer Engineering, Minor in Mathematics | University of Nebraska-Lincoln

## PROFESSIONAL EXPERIENCE

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**Booz Allen Hamilton** [Defense and Private Consulting] Aug. 2024 - Present  
*Senior Cloud Architecture Developer* *Salt Lake City, UT*

- Lead Engineer specializing in cloud architecture development. Responsible for designing, implementing, and optimizing cloud-native solutions for the global defense sector.

**Aviture, Inc** [Defense and Private Consulting] Nov. 2022 – Aug. 2024  
*DevOps Architect* *Salt Lake City, UT*

- Led DevOps architecture design for government and enterprise projects, developing cloud infrastructure solutions using AWS and Azure with IaC tools (AWS CDK, Terraform).
- Engineered reusable frameworks for core infrastructure and CI/CD workflows using GitLab and Bitbucket pipelines.
- Designed and implemented APIs with AWS Lambda; developed React (Next.js) front-end components with Tailwind CSS and Material UI.
- Spearheaded AI initiatives: developed LangChain-powered chat service, launched LLM-based Q&A Slack integration, and initiated company-wide DevOps meetups.
- Established comprehensive documentation portal to enhance knowledge sharing and promote DevOps best practices organization-wide.

**Spreatail** [E-commerce Services] Aug. 2022 – Nov. 2022  
*DevOps Engineer I* *Lincoln, NE*

- Architected and deployed ASP.NET microservices, enhancing system modularity and scalability.
- Implemented automated CI/CD pipelines, improving security scanning processes and infrastructure management with Terraform on Azure.

**Drone Amplified** [Wildfire Prevention Services] Sep. 2021 – Mar. 2022  
*Software Engineer Intern* *Lincoln, NE*

- Developed full-stack solutions for UAV operations: a Flask/JavaScript/AWS web application for flight reporting and an iOS mobile application in C for vehicle control.

**Relativity Space** [Aerospace Manufacturer] Jan. 2021 – Aug. 2021  
*Avionics & Integrated Software Engineer Intern* *Long Beach, CA*

- Engineered real-time data pipeline APIs for rocket engine telemetry and spearheaded a thermal chamber monitoring system, enhancing data analysis capabilities.
- Spearheaded Aeon-1 rocket engine controller acceptance testing, significantly improving component reliability for the Terran 1 launch vehicle.

**Honeybee Robotics** [Aerospace Manufacturer] May 2020 – Aug. 2020  
*Electrical Engineer Intern* *Longmont, CO*

- Developed automated testing interfaces and HITL software for spacecraft solar array motor controllers.
- Developed HITL hardware systems compliant with NASA circuit board specifications.

## INDEPENDENT PROJECTS

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**SkydiveWx.com** | *Skydive Weather and Jump Conditions Dashboard*

- Developed SkydiveWx.com, a free and public dashboard for real-time weather conditions and skydiving advisories.

**DashTools** | *Open-Source Command Line Client*

- Developed DashTools, a command-line tool to streamline templating and deployment for the Plotly Dash Python frontend framework. Achieved 100k+ downloads to date.

## TECHNICAL QUALIFICATIONS

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**Security:** Active secret security clearance (2023 - Present), CompTIA Security+

**Languages & Frameworks:** Python, JavaScript (React, Node.js), TypeScript, Java, HTML/CSS, Shell, C, ASP.NET, LangChain, OpenAI API, Flask

**Cloud & DevOps:** AWS (incl. CDK), Azure, Docker, Terraform, GitLab CI/CD, Bitbucket, GitHub, Jenkins  
**Development & Deployment:** RESTful APIs, Microservices, SPA Development, Agile Methodologies, Cloud Deployment, CI/CD Pipelines

**Systems & Networking:** Linux, Embedded Systems, Hardware-In-The-Loop, TCP/UDP, VPC, IAM, DNS

**Monitoring & Analytics:** Grafana, InfluxDB, New Relic, Real-Time Data Acquisition