Scott Anderson

scottand1337@gmail.com · scottanderson.cloud · linkedin.com/in/scottandersoncloud · github.com/scott-and

SUMMARY

Machine learning engineer with an M.S. in Computer Science (AI and machine learning) and hands-on cloud infrastructure work on AWS and Azure. Five years in the U.S. Air Force building data and automation systems for a 300-person organization, plus access control and incident response for sensitive systems. Active Secret clearance.

TECHNICAL SKILLS

Machine learning: Python, PyTorch, convolutional neural networks, few-shot learning, probabilistic classification, NLP (TF-IDF, logistic regression), evaluation on imbalanced data
Cloud: Terraform; AWS (VPC, ALB, EC2 Auto Scaling, RDS, CloudWatch, SNS, IAM, Systems Manager, S3, CloudFront); Azure (Log Analytics, managed identities)
Software: FastAPI, Docker, Hugging Face Transformers, Git and GitHub, Linux
Data and automation: Power BI, Power Query (M), Power Automate, SharePoint, Microsoft Lists

EXPERIENCE · U.S. AIR FORCE

Plans and Scheduling Technician, Cybersecurity Liaison and ISSO **Nov 2025 – Present**

- Built a Power BI data pipeline and dashboard unifying 13 data sources, saving about 8,000 person-hours a year.
- Control access to sensitive systems by verifying every account request before access is granted.
- Handle cybersecurity incident response; brief shop leaders across the squadron once or twice a week.

Training Technician **Oct 2022 – Nov 2025**

- Built Power Automate workflows that cut training no-shows by 97%; adopted by four other units.
- Kept security qualifications and training current for more than 300 people.
- Tested an Air Force generative AI platform: built prompts and workflows, reported issues to developers, and trained about 14 people across the squadron.
- Wrote an Air Force-wide AI integration proposal. Named squadron Airman of the Year, 2024.

Precision Guided Munitions Crew Chief **Dec 2021 – Oct 2022**

- Maintained precision guided missiles and delivered munitions to the flightline under written procedure.

PROJECTS

Semiconductor Wafer Defect Detection, *M.S. capstone* **2026**

- Implemented a prototypical network from scratch in PyTorch: 97.6% accuracy on unseen wafer defect classes.
- Cut training time 60% while raising accuracy: 2,500 20-way episodes instead of 10,000 5-way ones.
- Built a Bayesian network on manufacturing sensor data and tuned it to cut balanced error from 44.1% to 33.5%.

Atlas Logistics Multi-Cloud Rebuild, *github.com/scott-and/atlas-multicloud-migration* **2026**

- Migrated a web workload to AWS and Azure, then rebuilt it in Terraform across five reviewable phases.
- Designed for fault tolerance: ALB, Auto Scaling group with CPU scaling, and encrypted RDS with 7-day backups.
- Added CloudWatch alarms with SNS alerts for host health, latency, CPU credits, and database load.

adok8: Containerized Transformer Inference Service, *github.com/scott-and/adok8* **2026**

- Served a Hugging Face DistilBERT model through a FastAPI REST API, containerized with Docker.

EDUCATION

M.S. Computer Science, AI and Machine Learning, Western Governors University **2026**
B.S. Cloud Computing, Western Governors University **2026**

CERTIFICATIONS

AWS: Machine Learning Engineer Associate, Solutions Architect Associate, Cloud Practitioner
Microsoft Azure: Developer Associate (AZ-204), Administrator Associate (AZ-104), Fundamentals (AZ-900)
CompTIA: Security+, Cloud+, Network+, Project+, Secure Cloud Professional, Cloud Admin Professional
Other: ITIL 4 Foundation, LPI Linux Essentials