



Mubarak Adam

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Education

Virginia Polytechnic Institute and State University |

Bachelor of Science in Cybersecurity Management and Analytics

Blacksburg, VA

Graduated May 2026

Technical Skills

Certifications/Professional Development: CompTIA Security+ (08/2025),

AWS Certified Cloud Practitioner (12/2025), AWS Certified Solutions Architect – Associate (06/2026)

Frameworks/Tools

Cloud: AWS, S3, IAM, CloudWatch, GuardDuty, EC2, Lambda, EventBridge, SNS, DynamoDB

Infrastructure as Code: Terraform

Security: Splunk, Wireshark, Incident Response, Log Analysis, Network Security, SIEM, Threat Detection

Programming/Development: Python, Linux, Git, SSH

Projects

Automated Threat Response Architecture | AWS, Terraform, Python, GuardDuty, Lambda,

CloudWatch

August 2026

- Designed and deployed an event driven AWS security architecture using Terraform, integrating GuardDuty, Event Bridge, Lambda, CloudWatch, IAM, SNS, and DynamoDB to detect, process, and record security findings.
- Built a python Lambda responder that automatically ingests GuardDuty findings, logs structured security events data, and supports automated notification and audit workflows.
- Validated the architecture with a provisioned EC2 instance, GuardDuty sample findings, and CloudWatch logs while applying least-privilege IAM and Terraform IaC.

Explainable AI Music Discovery Assistant | Python, Claude API, Stream lit, pytest

July 2026

- Built an AI-powered music recommendation system that converts natural language requests into personalized song recommendations using deterministic retrieval and Claude generated explanations.
- Engineered reliability guardrails to validate AI outputs against retrieved data, reject hallucinated recommendations, and automatically fall back to deterministic results during API or validation failures.
- Implemented SSH-based access and Git commit signing to ensure secure access and code integrity.
- Built a modular python pipeline with Streamlit, secure API handling, structured logging, and 134 automated tests

Technical Training & Experience

Cybersecurity Program

February 2025 – August 2025

Code Path

Remote

- Completed 20 weeks of intensive cybersecurity training through Code Path (CYB 101 and CYB 102)
- Built practical experience with Linux, networking, and core security tools through labs and projects.
- Conducted threat detection and log analysis using real-world cybersecurity workflows.
- Applied security concepts to incident analysis, risk assessment, and technical documentation

Applied AI Engineering Program

June 2026 – August 2026

Code Path

Remote

- 10 weeks of intensive applied AI engineering training focused on AI-assisted software development
- Strengthened programming fundamentals by evaluating, debugging, and improving AI-generated code using Claude and Claude Code.
- Designed and built full-stack applications through hands-on projects and collaborative development workflows.
- Applied responsible AI practices while contributing to open-source projects and documenting system limitations and performance.

Additional Experience

Barista/ Team Member | Deets Place | Blacksburg, Va

October 2023 – February 2025

Bus Driver | BT Transit | Blacksburg, Va

February 2025 – May 2026

