

LOGAN M. PONIK

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Education

University of Delaware

B.S. Computer Science, Concentration: Artificial Intelligence & Robotics

May 2026

Newark, DE

Certifications

AWS Certified Solutions Architect – Associate

August 2026

Relevant Coursework

- Data Structures
- Algorithms
- Database Systems
- Machine Learning
- Parallel Programming
- Artificial Intelligence
- Computer Vision
- Linear Algebra
- Discrete Mathematics

Professional Experience

Axe.ai

June 2025 – August 2025

Software Development Intern

- Developed and integrated production features for a React/Tauri desktop application, working across application logic, REST APIs, debugging, and existing production systems.
- Designed and implemented an interactive architecture visualization using React Flow to represent internal system workflows and improve developer understanding of application components.
- Contributed to production code through Git-based workflows, code reviews, CI/CD pipelines, testing, and Agile development with engineers and cross-functional stakeholders.

Projects

Terraform AWS Resilient Service | *AWS, Terraform, VPC, EC2, ALB, Auto Scaling, IAM, SSM, CloudWatch*

- Designed and provisioned a two-AZ AWS architecture with a public Application Load Balancer and Auto Scaling EC2 instances isolated in private subnets using reusable Terraform modules.
- Configured IAM instance roles, security groups, launch templates, health checks, CloudWatch CPU alarms, scaling policies, and Systems Manager access without public SSH or public instance IPs.
- Validated infrastructure creation, load balancing, instance replacement, and administrative access in AWS, then destroyed the environment through Terraform to maintain a repeatable infrastructure lifecycle.

Terris | *AWS, Terraform, EC2, S3, CloudFront, ECR, Docker, GitHub Actions, FastAPI, Next.js*

- Architected an AWS deployment where CloudFront serves a static Next.js frontend from private S3 and routes `/api/*` requests through nginx to a Dockerized FastAPI service running on EC2.
- Codified core infrastructure with Terraform and implemented keyless GitHub Actions deployments using OIDC, ECR, scoped IAM permissions, immutable Git-SHA container images, and Systems Manager.
- Built a CI/CD pipeline that validates data, runs application tests and type checks, scans containers with Trivy, and gates deployments on direct-container and nginx-proxied health checks.

Rocky Linux Homelab | *Rocky Linux, Ansible, Podman, systemd, Nginx, Prometheus, Grafana, WireGuard*

- Built and operate a physical Rocky Linux homelab for Linux administration and networking, including hardened SSH, SELinux, firewall, Fail2ban, Nginx rate limiting, WireGuard, and Pi-hole.
- Deployed Prometheus, Grafana, Pi-hole, and Node Exporter using Podman and systemd, with automated health checks, backups, log rotation, monitoring, and recurring systemd timers.
- Converted persistent server configuration into role-based Ansible automation and tested network and security controls using Nmap, Gobuster, tcpdump, Wireshark, and a controlled Kali Linux VM.

Technical Skills

Cloud & Infrastructure: AWS, Terraform, VPC, EC2, S3, CloudFront, ECR, ALB, Auto Scaling, IAM, Systems Manager, CloudWatch

Linux & Networking: Linux, Rocky Linux, Nginx, systemd, SELinux, firewall, SSH, DNS, TCP/IP, WireGuard, Wireshark, tcpdump, Nmap

DevOps & Automation: Docker, Podman, Ansible, GitHub Actions, CI/CD, Git, Bash, Prometheus, Grafana, Trivy

Programming: Python, TypeScript/JavaScript, SQL, FastAPI, React, Next.js

Leadership

Phi Kappa Sigma

April 2024 – April 2025

Academic Chair

- Mentored more than 70 chapter members on academic planning and accountability, contributing to a 15% increase in average chapter GPA over the term.