

Nicholas Graves

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EDUCATION

Oregon State University <i>Bachelor of Science in Computer Science, Focus in Cybersecurity, GPA: 3.47</i>	Corvallis, OR Sep. 2020 – Jun. 2024
Oregon State University <i>Master of Business Administration, Focus in Cybersecurity Management, GPA: 3.92</i>	Corvallis, OR Jun. 2024 – Dec. 2025

SKILLS

Security & Networking: Cryptography, Wireshark, Packet Analysis, Security Governance, Risk Assessment, IAM
Cloud & DevOps: AWS (EKS, S3, CloudFront, Elastic Beanstalk), Kubernetes, Docker, GitHub Actions
Programming & Tools: Python, Bash, C++, SQL, Linux, Git, Metasploit, Nessus, Autopsy

PROJECTS

Cybersecurity Capstone Project <i>AWS CLI, AWS EKS, Python, YAML</i>	Sep. 2023 – June 2024
<ul style="list-style-type: none">Led deployment of the BeaverCTF & BeaverCDS cybersecurity competition platform on AWS EKS, supporting 200+ concurrent users during the DamCTF event.Improved cluster reliability and security by refactoring Kubernetes manifests and container configurations for modern EKS compatibility.Partnered with the OSU Security Club to design a scalable, fault-tolerant cloud environment, cutting deployment issues by 40%.Gained hands-on experience with Python scripting, Kubernetes orchestration, and cloud security best practices.	
PCAP Anomaly Analyzer <i>Python, Pandas, PyOD, Ollama</i>	June 2025 – Present
<ul style="list-style-type: none">Developed a Python toolchain that parses PCAP/PCAPNG files and extracts structured network flows enriched with metadata.Applied unsupervised anomaly detection (Isolation Forest via PyOD) to flag suspicious traffic, reducing manual packet review time by 70%.Integrated local LLMs (LLaMA 3.1, DeepSeek via Ollama) to generate executive-ready incident summaries of flagged anomalies.Enhanced detection accuracy by layering Retrieval-Augmented Generation (RAG) for context-aware analysis of network traffic.	
Cloud-Deployed AI Prompt Evaluation Tool <i>AWS, GitHub Actions, Flask</i>	June 2025 – Present
<ul style="list-style-type: none">Architected a cloud-native web application with static frontend on S3/CloudFront and dynamic Flask API backend on Elastic Beanstalk.Designed scalable infrastructure with load balancing, autoscaling, and health monitoring, ensuring high availability for 500+ monthly requests.Automated multi-stage deployments with GitHub Actions CI/CD, reducing release time from hours to minutes.Hardened deployments by implementing least-privilege IAM roles and environment-isolated staging/production pipelines.	

LEADERSHIP & ACTIVITIES

Fraternity Leadership: Served as Academic Chair for Lambda Chi Alpha, managing study sessions, tutoring programs, and GPA accountability initiatives for 120+ members.
MBA Strategy Simulation: Led 4-person team in competitive business simulation; ranked in top quartile across 30+ teams.
OSU Security Club: Contributor to CTF events and cloud deployment strategy.

CERTIFICATIONS & HONORS

Oregon State University Dean's List - 10 terms (2022-2025)
Best Use of Cloud Technologies Award Winner - Oregon State Engineering Expo (2024)
CompTIA Security+ - In progress (Expected January 2025)