

OLIVER KRAUSS

• olkraussgo@gmail.com • github.com/kragoolk • oliverkrauss.space • linkedin.com/in/oliverkrauss •

PROFESSIONAL GOAL

Cybersecurity student with active DoD contractor internship experience seeking SOC Analyst role to apply incident response, SIEM analysis, and threat detection skills in enterprise security operations.

EDUCATION

University of Texas at San Antonio (UTSA) Major GPA: 3.62/4.00

Spring 2026

Bachelor of Business Administration (BBA) in Cyber Security

SKILLS & CERTIFICATIONS

- **Tools:** Wireshark, Nmap, Metasploit, Nessus, NetworkMiner, Splunk, Docker, React, Vite, Three.js
- **Techniques:** Incident Response, Intrusion Detection, Log Analysis, Digital Forensics, Access Management
- **Networking:** Snort, PfSense, MPLS, TCP/IP, PKI, DNS, DHCP, TLS, IDS/IPS
- **Programming:** Python, SQL, Bash, Java, JavaScript, Lua
- **Certifications:** Google Cybersecurity Professional Certification, IBM Cloud Fundamentals, CompTIA Sec+ (In Progress)

PROJECTS & EXPERIENCE

Rowdy Runner Fellow | BEAT LLC | *KnowBe4, ADP, MS Office*

Oct 2025 – Ongoing

Support cybersecurity operations for global IT solutions provider partnering with DoD and Federal agencies on mission-critical infrastructure. Completed KnowBe4 security awareness training covering phishing detection, incident response protocols, and compliance frameworks (NIST, ISO 27001, RMF). Participate in 3 monthly Technical Exchange Forums analyzing emerging threats and defensive strategies while collaborating with cybersecurity Communities of Practice on vulnerability remediation and cloud security operations.

Red vs Blue Team Competition | Cyber Jedis | *Docker, Python, Bash, Debian*

Aug 2025 – Ongoing

Led 6-person team developing a full-stack, gamified Red vs. Blue cyber operations platform with containerized infrastructure (Docker, Debian, Python). Built secure SSH terminal access with centralized logging backend and real-time sudo approval workflows. Integrated React dashboard and Unreal Engine 5 visualization for live mission impact feedback. Supported 20+ concurrent users with dynamic network segmentation and automated system orchestration.

Network Forensic Analysis of a Real-World Compromise | *Kali Linux, Snort, Wireshark, NetworkMiner*

Sept 2025

Conducted forensic analysis on multi-stage cyberattack exploiting FTP zero-day (CVE-2002-1345), tracing privilege escalation, lateral movement, and persistent access. Mapped adversary tactics to MITRE ATT&CK framework, finding critical gaps in patch management and authentication, and delivered actionable defense-in-depth recommendations.

Portfolio Website | *React, Three.js, Vite, JavaScript, HTML*

July 2025

Built interactive portfolio website using React framework with Three.js for 3D cybersecurity visualizations and Vite for optimized build tooling. Implemented responsive design, component-based architecture, and CI/CD deployment via GitHub Actions. Showcases cybersecurity expertise, technical projects, and full stack development skills.

Arch Linux Cyber Operations Workstation | *Python, JavaScript, Bash, IBM Platform, Notebook, Docker*

Spring 2025

Built and maintained customized Arch Linux environment as daily workstation and cybersecurity lab. Integrated open-source security tools (Docker, Metasploit, Wireshark) for rapid deployment, enabling Red/Blue Team scenario testing in isolated environment.

PKI & Certificate Authority Deployment | *VMWare, Ubuntu Server, Apache2, OpenSSL, DHCP, PKI*

Spring 2025

Deployed Public Key Infrastructure (PKI) and secured Apache2 web server with custom SSL certificates. Managed certificate lifecycle (issuance, validation, revocation) simulating enterprise scenarios with 50+ endpoints.

LEADERSHIP & MEMBERSHIP

Quantum Research Team Member | UTSA | *Post-Quantum Security Forensics*

Aug 2025 – Present

Conduct post-quantum cryptographic migration research and cost-benefit analysis for Texas Quantum Initiative funding proposal (\$500M state pool). Develop financial models and technical feasibility assessments supporting UTSA quantum infrastructure grant application under Texas HB 4751.