

OLIVER KRAUSS

• San Antonio, TX • olkraussgo@gmail.com • linkedin.com/in/oliverkrauss

EDUCATION

University of Texas at San Antonio (UTSA)

Spring 2026

Bachelor of Business Administration (BBA) in Cyber Security

LEADERSHIP & MEMBERSHIP

- Quantum Research Team Member, Post-Quantum Security Forensics Aug 2025 – Present
- Co-Director & Designer, Cyber Jedis, Red vs Blue Team Competition Aug 2024 – Present
- Capture the Flag & Workshop Designer, Rowdy Cyber Conference March 2026
- Vice President, UTSA Table Tennis Club, State Competitions (2022) Aug 2021 – May 2024

SKILLS & CERTIFICATIONS

- Tools:** Wireshark, Nmap, Nessus, NetworkMiner, OpenSSL, Tableau, Metasploit, Masscan, MS Suite
- Techniques:** Incident Response, Intrusion Detection, Log Analysis, Digital Forensics, Access Management
- Networking:** Snort, PfSense, Packet Tracer, MPLS, TCP/IP, PKI, DNS, DHCP, FTP, SSL, TLS, IDS/IPS
- Frameworks & Standards:** NIST CSF, MITRE, CISA, OWASP
- Programming:** Python, SQL, Bash, Java, JavaScript, Lua
- Platform & Infrastructure:** Kali, Arch, Ubuntu, Windows, Jupyter Notebook, GitHub, Docker, IBM Platform
- Certifications:** Google Cybersecurity Professional Certification, IBM Cloud Fundamentals, CompTIA Sec+ (In Progress)

PROJECTS & EXPERIENCE

Network Forensic Analysis of a Real-World Compromise | Kali Linux, Snort, Wireshark, NetworkMiner Sept 2025

- Analyzed authentic network traffic from a multi-stage attack leveraging an FTP zero-day (CVE-2002-1345) to achieve privilege escalation, lateral movement, and persistent access.
- Mapped adversary tactics to MITRE ATT&CK, tracing technical indicators across initial access, system enumeration, and suspected data exfiltration.
- Identified critical gaps in patch management and authentication practices, delivering actionable recommendations for defense-in-depth and rapid response improvements.

Arch Linux Cyber Operations Workstation | Arch, Python, JavaScript, Bash, vim, IBM Platform, Notebook Feb 2025

- Building, configuring, and maintaining a highly customized Arch Linux environment, optimizing package management, system services, user permissions, and integrating open-source security tools for seamless experimentation and rapid deployment.
- Created a dynamic research platform, enabling rapid tool integration, vulnerability assessment, exploit development, and Red Team/Blue Team scenario design in an isolated, production-ready lab.

Penetration Testing Lab | VMWare, Kali Linux, Metasploitable2, Metasploit, Nmap, Masscan Jan 2025

- Performed host discovery and service enumeration on Metasploitable2 using Nmap and Masscan.
- Documented vulnerabilities and wrote structured reports simulating internal risk assessments.

PKI & Certificate Authority Deployment | VMWare, Ubuntu Server, Apache2, OpenSSL, DHCP, PKI Feb 2025

- Built a Public Key Infrastructure (PKI) and secured an Apache2 web server with custom SSL certificates.
- Managed certificate issuance and revocation to simulate enterprise certificate management.

The Recording Academy / Grammy.com Project | MySQL, Jupyter Notebook, Tableau Cloud Spring 2024

- Analyzed website traffic and user behavior from databases with 100,000+ entries using SQL to uncover peak engagement trends.
- Created over 20 visualizations in Jupyter and Tableau Cloud to support content strategies and boosting user retention post-award season.

Front Desk Receptionist | Chicken N Pickle, Pickleball, Spanish Fluency Oct 2023 – Present

- Led instructional sessions for 20+ guests daily, effectively translating rules and procedures for diverse groups.
- Cultivated an inclusive environment and strengthened community engagement.
- Delivered high-quality guest experiences while managing bookings, inquiries, and real-time customer issues.