Bo Pan (559)575-4371 | bopan6008@gmail.com | Seattle WA, 98043

LinkedIn https://www.linkedin.com/in/bopann/

My Website: https://bopan.me/

Cybersecurity enthusiast with an aerospace maintenance background, bringing strong safety discipline and troubleshooting skills to the SOC analyst field.

SKILLS

- **Language**: Python, Java, C++, SQL, Javascript
- **Tools**: Linux, Git, Wireshark, SIEM, Splunk, Incident Analysis (Githubhttps://github.com/BoPann)
- **Certification**: Google Cybersecurity Certification | TryHackMe SOC Level1 in progress | TryHackMe AoC current participant

PROJECTS

Home DNS Filtering Server - Linux, Pi-hole, Networking, Virtual Machine

- Deployed Pi-hole on a Debian Linux virtual machine to configure a DNS filtering server, blocking blacklisted malicious domains, reducing ad traffic, and analyzing DNS queries to detect anomalies.
- Outcome: Achieved 100% blocking rate for blacklisted malicious domains, significantly enhancing network security and browsing performance.

Reliable Data Transfer (RDT) Protocol Design - Python, TCP/IP

- Designed and implemented a Reliable Data Transfer (RDT) protocol using Python to simulate TCP/IP packet transmission, incorporating sequence numbers, acknowledgment mechanisms, checksum error detection, and retransmission to ensure data accuracy, integrity, and order.
- Outcome: Achieved zero packet loss and sequential delivery in a simulated reliable transmission environment.

EXPERIENCE

Teaching Assistant | Seattle University *Jan 2024 – Mar 2025*

- Held office hours to assist students with coding exercises, projects, and problem-solving, fostering an inclusive and supportive learning environment. Collaborated with instructors and TAs to improve course materials, stayed current on programming languages, and provided constructive feedback while grading assignments.
- Result: 90% passing rate.

Aircraft Mechanic | Aviation Technical Service *Feb 2022- Jan 2023*

- Maintained and repaired aircraft interior components by following the manufacturer's guidelines and manual. Collaborated with senior mechanic and quality controller through regular meetings and communication.
- Result: Achieved 100% compliance with flight safety regulations and a 95% on-time delivery rate.

EDUCATION

Master of Science in Software Engineering *Seattle, WA*

Seattle University, GPA 3.8 *Expected Graduation Mar 2026*