

Nathan Tebbs

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TECHNICAL SKILLS

Languages: Go, Rust, C, Java, Python, Bash

Systems: Linux (Ubuntu, Debian, Arch, Void), Windows 10/11, Windows Server

Operations: User/group management, patching, logging, backups, basic virtualization, storage, and RAID concepts

Tools: Git/GitHub, Docker, VMware/KVM, GDB, Valgrind, SSH

RELEVANT PROJECTS

GateRelay (github.com/nathantebbs/gaterelay) 2025 — Present

- Built and operated a Linux-based TCP relay as a hardened, non-root systemd-managed service in a virtualized lab environment.
- Implemented connection limits, timeouts, and graceful shutdown to support 24x7-style service operation and predictable failure behavior.
- Configured structured logging and restart policies to support troubleshooting, recovery, and operational documentation in a production-like setting.

Command & Control Simulator (github.com/nathantebbs/c2) 2025 — Present

- Developed a secure client/server simulator to exercise authenticated request/response workflows between distributed Linux services in a controlled lab environment.
- Designed structured message handling, session state, and command validation to ensure predictable, auditable service behavior under normal and fault conditions.
- Evaluated authentication failures, malformed inputs, and service interruptions to validate resilience and correctness in security-sensitive, mission-focused systems.

ACADEMIC EXPERIENCE

Undergraduate Teaching Assistant - Cloud Computing Jan 2025 — May 2025

University of Arizona

Tucson, Arizona

- Assisted students with Linux-based cloud VMs, web servers, networking, and deployment issues.
- Troubleshoot configuration errors and documented common failure modes and resolutions.

PROFESSIONAL EXPERIENCE

Website Developer 2021 — Present

Sound Psychiatric Services

Olympia, Washington

- Deployed and maintained production websites, handling hosting, updates, backups, and long-term maintenance.
- Migrated legacy systems to modern stacks with improved reliability and security posture.

TECHNICAL LEADERSHIP

Safety Captain 2021 — 2023

FIRST Robotics Competition team 4450

Olympia, Washington

- Led safety operations for a competitive engineering team, enforcing shop, electrical, and tooling safety standards across mechanical, electrical, and software work under strict build and competition deadlines.
- Served as Safety Captain for an international outreach program, coordinating safety planning and risk mitigation for a \$60,000 fundraising effort supporting travel of 17 students and delivery of metal-based FTC robotics kits to Cairo, Egypt, enabling hands-on robotics education in a resource-constrained environment.

EDUCATION

University of Arizona

Tucson, Arizona

Bachelor of Science in Computer Science

Aug 2023 — May 2026

- Relevant Coursework: CSc 425 Computer Networking, CSc 352 Systems Programming & UNIX

South Puget Sound Community College

Olympia, Washington

Associate of Arts

Sep 2021 — May 2023

ADDITIONAL INFORMATION

- U.S. Citizen – eligible for DoD security clearance