


# Ethan Kanyid

 <https://ethan.kanyid.dev>

## Objective

Cyber Security Intern and recent Computer Science graduate with cyber security engineering and software development experience at PNNL. CompTIA Security+ certified with robust personal project experience. Seeking a position to apply programming and networking skills toward protecting critical infrastructure and developing secure systems.

## Experience

### Pacific Northwest National Laboratory

#### Cyber Security Intern (Tech Student)

August 2025 – Present

- Developed analytics to monitor DNS network data and servers
- Deployed domain typo-squatting detection in AWS EC2 and S3
- Implemented embedding models for an LLM RAG pipeline with Docker and Rust

#### Summer Intern (SULI)

May 2025 – August 2025

- Worked with Trino and Apache Airflow to create analytics on big data with automated Python scripts and SQL
- Presented research and engineering solution at Lab-wide intern symposium

### Apostolic Christian Church

#### Technician

2017 – Present

- Manage audio/visual systems for in-person and online services
- Troubleshoot and adapt with complex equipment to ensure smooth operations

## Education

### B.S. Computer Science · Washington State University (Tri-Cities)

2023 – 2026

- GPA: 3.96 · Summa Cum Laude
- Cyber Security Certificate (CySER)
- 2<sup>nd</sup> Place senior capstone in School of Engineering and Applied Sciences

### Associates of Arts and Sciences · Columbia Basin College

2020 – 2022

- GPA: 3.88 · Magna Cum Laude

## Skills

**Proficient:** C/C++, SQL

**Moderate:** Python, JavaScript

**Limited:** Rust, Lisp, R, Spanish (A1)

## Tools

**Proficient:** Git, Docker, UNIX

**Moderate:** AWS S3 & EC2, Flipper Zero, Cloudflare

**Limited:** Kubernetes, Wireshark

## Awards & Acknowledgements

Department of War VICEROY Alumni

Spring 2026

CompTIA Security+ Certified

2025 – 2028

Top 100 - US Cyber Challenge

Fall 2024

Hanford Soccer Varsity Captain

Spring 2022

Eagle Scout

Fall 2021

## Projects

### Homelab Server · 600 Hours

2023 – present

My original passion-project began with a Mac 4,1 with modified firmware to boot Linux and a third-party GPU. I now manage three servers, with two being custom-built Linux servers.

#### DevOps

- Manage 30+ containers running across 3 systems
- Automate deployment and versioning of apps with Docker and Kubernetes (K3's) through Gitlab CI/CD

#### Network Engineering

- Implemented a multiple access point network with wired backhaul channels
- Added custom DHCP and DNS servers with ad-blocking support
- Enabled remote management of the networks through VPN tunnels

#### Cyber Security

- Manage access control through firewall rules, OIDC, and SSO
- Administrate reverse proxy with local HTTPS through a DNS challenge

#### Server Administration

- Maintain server uptime and access to applications for 18 users
- Self-host a Gitlab server and runner, media, cloud storage, game servers, and more

#### Infrastructure

- Architected a power-efficient, durable server engineered for minimal downtime
- Provisioned the system with finetuned firmware, headless OS, and driver setup
- Use a ZFS (RAID) pool for redundancy, integrity, and portability

#### Artificial Intelligence

- Run a local AI stack with GPU-accelerated LLM, STT/TTS, and image generation models
- Designing an automated RAG setup for personalized experience

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### Senior Capstone Project · 100 Hours

Fall 2025 – Spring 2026

#### IoT device

- Our team programmed an embedded device to read ambient sensor data and securely transmit it to our cloud server

#### Cloud Infrastructure

- I used Docker and GitHub actions to build the app and push to our private repository
- I deployed the compose stack (web app, database, reverse proxy) on the cloud server

#### Full Stack Web App

- Our team engineered the application using ExpressJS, MongoDB, and React

#### Teamwork

- Our team held stand-up and completed the work over four sprints
- Our team managed multi-lingual communication with a Colombian client
- Our product is already being marketed in Colombia