

# Tyson Jenkins

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## SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, TypeScript, C#

Technical Skills: Git, Agile Collaboration

Web: React, Svelte

DevOps: Docker, Network Configuration, Traefik, Cloudflare

Databases: MongoDB, MySQL, PostgreSQL

## Work Experience

### Student Coach

January 2025 – Present

*Neumont College of Computer Science*

*Salt Lake City, UT*

- Coached students in networking concepts, including static routing, dynamic routing, DNS, and DHCP using Cisco Packet Tracer.
- Assisted 20+ students, leading to an improvement of 20% in lab performance.

## Projects

### Home Lab

October 2024 – Present

- Maintained a Proxmox homelab to host and containerize 5+ applications.
- Enabled secure external access to my systems using Cloudflare Tunnel.
- Hosted Plex, Pi-hole, and Ollama, optimizing performance.
- Streamlined Docker deployments for 99.5% uptime.

### TYSONCLOUD-demo

May 2025

- Engineered a web platform for creating and using remote PostgreSQL databases.
- Deployed via Docker on homelab, showcased on [tysoncloud-demo.tysonjenkins.dev](https://tysoncloud-demo.tysonjenkins.dev).
- Secured user sessions via Pocketbase authentication.
- Taught 15+ students the basics of PostgreSQL using this platform.

### TYSONCLOUD

November 2024 – December 2024

- Crafted a cloud platform using Svelte, Flask, and Supabase, with the intent of simplifying deployments.
- Deployed using Docker containers on homelab, showcased on [tysoncloud.tysonjenkins.dev](https://tysoncloud.tysonjenkins.dev).
- Improved the git integration build system, decreasing deployment time by 20%.
- Diagnosed and resolved a problem during the build process that prevented builds from finishing.

### J-RAT

August 2024

*Class Project - Intro to Software Projects*

- Built a photo editing application using C++ in a collaborative team environment.
- Developed key features such as resize and rotate functions with OpenCV.
- Optimized memory management to prevent runtime errors.
- Implemented accurate rotation using mathematical principles.

## EDUCATION

### Neumont College of Computer Science

September 2024 – September 2026

*Bachelor of Science in Computer Science*

*Salt Lake City, UT*

- GPA: 4.0
- President of the Cyber Security Club