

Tyson Jenkins

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SKILLS

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

Technical Skills: Git, Docker (advanced), Network Configuration (experienced), Traefik, Cloudflare, MongoDB, MySQL, Postgres, Agile Collaboration

Web: React, Svelte

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.

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.

TYSONNOTE

December 2024

- Engineered an application that converts note images to text using Flask API, docTR, MongoDB, and React.
- Deployed via Docker on homelab, showcased on [tysonnote.tysonjenkins.dev](https://tysonjenkins.dev).
- Secured user sessions via JWT session tokens.
- Resolved a backend bug, increasing text conversion accuracy for 50+ notes.

STUPED

November 2024 – December 2024

Persistence Project

- Crafted an image-to-article application using Flask backend and React frontend, generating 20+ articles.
- Deployed using Docker containers on homelab, showcased on stuped.tysonjenkins.dev.
- Improved API performance, reducing article retrieval time.
- Diagnosed and resolved Milvus-Flask API connection failure, ensuring reliability.

J-RAT

August 2024

Introductory 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