

JAD ASSAF

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SUMMARY

Infrastructure- and systems-focused Information Systems undergraduate with hands-on experience building Linux-based server environments using containerization, databases, monitoring, and automation. Strong interest in DevOps, IT infrastructure, and reliability engineering in production and regulated environments.

TECHNICAL SKILLS

- **Infrastructure & Operating Systems:** Linux (Ubuntu Server & Arch), Windows, Networking Fundamentals, Processes & Memory
- **Containers & Services:** Docker, Docker Compose, Nginx, PostgreSQL
- **Monitoring & Observability:** Prometheus, Grafana, Logging & Metrics
- **Scripting & Automation:** Bash, Python
- **Programming & Systems:** C++, Rust, Go
- **Tooling & Practices:** Git, Debugging, Documentation, Problem Solving

ACADEMIC & TECHNICAL PROJECTS

Mock Healthcare Infrastructure Server 2026 – *present*

Linux / DevOps Project

- Designed and deployed a containerized Ubuntu Server environment simulating a healthcare-style system using Docker Compose.
- Implemented PostgreSQL with persistent storage and Nginx as a reverse proxy.
- Integrated Prometheus and Grafana for metrics, monitoring, and alerting.
- Simulated service failures and documented recovery workflows using logs and metrics.
- Focused on reliability, observability, and audit-friendly system behavior.

Syngie 2026 – *present*

Systems Programming (Rust)

- Reimplemented selected standard-library abstractions from first principles to study ownership, memory allocation strategies, and safe/unsafe boundaries in Rust.

Kyubey-Scan 2025

Concurrent Networking Tool (Go)

- Developed a concurrent TCP port scanner using goroutines and non-blocking network I/O to explore networking fundamentals and concurrency.

Windows Kernel Driver 2025

Educational Project

- Implemented IOCTL-based communication between user-mode and kernel-mode components to study Windows driver interfaces.

EDUCATION

Youngstown State University

Ohio, United States

Bachelor of Science — Information Systems

2026 – present

Career & Technical Training (CBT)

Ohio, United States

Diploma

2022 – 2024

Mahoning County Career & Technical Center / Boardman LSD

STEM Curriculum

Ohio, United States

Completed

2020 – 2022

Valley STEM + ME2 Academy

ACTIVITIES & INTERESTS

HOSA

2020 – 2023

Member

- Homelab & Infrastructure Projects
- Systems Programming & Operating Systems