

Felix Vujasin

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GitHub: [Feelfeel20088](https://github.com/Feelfeel20088)

Internship Vision 2026

I'm seeking a summer internship where I can apply my experience in full-stack development and DevOps while growing under professional mentorship. I aim to contribute to impactful projects that involve containerized application deployment, cloud infrastructure, and automation, especially those leveraging AI/ML to solve real-world problems. I'm eager to gain hands-on experience with enterprise development workflows, DevOps pipelines, and industry best practices for system security, reliability, and scalability. This opportunity would complement my self-directed learning and prepare me for future studies in computer science at institutions like the University of Illinois Urbana-Champaign or Northwestern University.

Education

Incoming Transfer Student - August 2025

Loyola Academy, Wilmette, IL - *Junior/Senior High School Student, Class of 2027*

August 2023 - June 2025

Wolcott College Prep, Chicago, IL - *Freshman/Sophomore High School Student, Class of 2027 (3.92/4.00)*

- Demonstrated proficiency by passing both **AP Computer Science Principles** and **AP Computer Science A** exams *without taking the formal courses*.

Technical Skills

Programming Languages:

- Proficient: Python, TypeScript (Javascript)
- Intermediate: Rust, Java
- Familiar: C++, Swift, HTML/CSS

Technologies & Infrastructure:

- **Web Development:** CSS, Fastify, GitHub Pages
- **DevOps & Cloud:** Docker, K3s, Argo CD, Jenkins, HashiCorp Vault
- **Networking:** Experienced with **Cloudflare** services including DNS, Zero Trust, Tunnels, WAF, and webhook integrations. Comfortable configuring **legacy networking gear** (routers, switches, firewalls) via CLI and web UI. Skilled in building **networked applications** using TCP, UDP, HTTP/S, and WebSockets. Proficient in designing and debugging **custom protocols** with a focus on performance and reliability.
- **Systems:** NixOS (Daily driver), Self-managed K3s cluster, Linux administration
- **AI & ML:** OpenCV, Stable Baselines3, Ollama integration

- **Embedded/IoT:** ESP8266, Arduino, Bluetooth interfacing
- **Automation:** Selenium, BeautifulSoup, WebSocket API integration

Work Experience

July 2025 - PRESENT

Audi Exchange, Highland Park, IL – *IT Assistant*

- Worked with DMS systems (CDK) to manage entitlements and enroll new computers in 365 for the Audi, Porsche and Chevy Exchange.
- Managed and maintained industrial networking equipment.
- Solved common CDK config file errors by writing programs to replace corrupted files.
- Migrated all computers to windows 11 by replacing or upgrading old computers.

Technical Projects

Infrastructure

Self Hosted K3s Cluster

Home K3s cluster with a assortment of nodes

- Designed and maintained self-hosted K3s cluster running on server hardware (Dell PowerEdge R630, R730xd, Lenovo ThinkCentre, old laptops, etc)
- Experienced with reverse proxy setups using **Cloudflare** for main ingress and **FRP**, with the **FRPS server hosted on Google Cloud** and the cluster running an **FRPC client** to establish reverse UDP tunnels for internal game services
- Established monitoring and logging systems for cluster health and application performance using Prometheus as a daemon set and Graphana to display the information

Automated CI/CD Workflows

- Implemented containerized application deployments with automated CI/CD workflows using Nix, Github actions and Argo Workflows

Applications

All Application projects can be run with Nix using `nix run github:<GitHub URL>`.

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Full- stack Personal Portfolio & Service Platform

- Designed and implemented a personal portfolio website with full-stack functionality
- Built and deployed on a self-managed NixOS K3s cluster with Cloudfire integration
- Developed custom AI chat UI with backend API support (Deprecated using openUI now)
- Implemented secure CI/CD pipeline for automated deployments

Just Another Kahoot Bot

WebSocket API Integration & Automation

- Reverse-engineered Kahoot's WebSocket API to develop a production-grade automation tool
- Created an efficient bot framework demonstrating API integration, networking, and real-time data handling
- Implemented secure authentication mechanisms and session management

Krousinator

Cross-Platform Command & Control (C2) Infrastructure for Ethical Malware Research

- Built in Rust for safety, performance, and cross-compilation across Linux, Windows, and macOS, this modular malware framework demonstrates the simplicity and risks of modern botnet creation
- Implements a WebSocket-based, bi-directional communication channel using asynchronous, event-driven architecture for real-time server-bot interaction
- Designed as an educational tool to highlight malware proliferation, security vulnerabilities, and the importance of secure software design
- Emphasizes ethical hacking and reverse engineering while showcasing a Command & Control (C2) infrastructure in a research-focused context

Warning: Only use the Krousinator in an isolated environment (i.e., a virtual machine). It is dangerous and nearly impossible to remove if installed. You must build it from source - see the [README.md](#) in the [Krousinator GitHub repository](#) for instructions.

Wireless RC Car Control

RC Car Controlled by Steam Deck (or any controller that SDL2 can recognize)

- Developing firmware in C++ for the ESP8266 microcontroller to control RC car servos and ESC
- Creating a Rust-based interface for Steam Deck to wirelessly communicate with the RC car
- Implementing a custom radio communication protocol for reliable remote control

OpenSource Contributions

Lux

- Lua package manager written in Rust