

# Dylan Spence

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## Summary

Software engineer with a strong systems mindset and hands-on experience across Linux, IT infrastructure, and full-stack development. Comfortable taking ownership of production software, maintaining legacy systems, and building tools and automation that improve reliability and developer productivity.

## Education

### Rochester Institute of Technology, Rochester, NY

Bachelor of Science in Computer Science, Honors | May 2025

## Professional Experience

### Precision Optical Technologies, Rochester, NY

Software Engineering Co-op | January 2024 – August 2024

- Designed a Gitlab synchronized web interface that improved our engineers project, and issue tracking by replacing an outdated excel spreadsheet.
- Maintained legacy software such as Electron, QT, and React based applications that accounted for a majority of company revenue.
- Managed the internal Django framework, improving on old features while adding new ones to support other parts of the company like sales, HR, production, and engineering.
- Worked on firmware of custom tuning box hardware that our customers and engineers used

### MKS Instruments, Rochester, NY

Software Engineering Co-op | January 2023 – July 2023

- Developed a Jenkins build automation script that greatly streamlined the ability to ship software.
- Enhanced main Dynamic Link Library by adding to the test suit, fixing reported bugs, and adding requested features.

### MIMIO (Remote)

Application Developer | July 2022 – December 2022

- Collaborated with the client to develop a unique messaging app that was shipped to Google Play Store and Apple App Store.
- Delivered timely Graphical User Interface updates to the client throughout development.
- Built back-end components of the App including, Firebase database, user login flow, and a custom message interpretation engine.

## Projects

### Homelab Server & Infrastructure Management (Docker, Cloudflare, Proxmox, Linux)

- Assembled a custom built server running Proxmox as a hypervisor
- Manages multiple virtual machines and Docker containers for self hosted services that route through Cloudflare zero-trust to be exposed to the internet

### Porthole Linux Distribution (QML, Bash, Linux, Python, UI Design, Quickshell)

- Maintains a set of repositories that together make up Porthole, a customized Arch Linux distribution.
- Assembled a set of Bash scripts that automatically installs packages and setup dot files to build the distribution.
- Devised a Quickshell widget that makes up the desktop environment along with Hyprland
- Created a QT application that allows for customizing and configuring the distribution.

## Technical Skills

**Programming:** Python, Java, C#, Javascript, Typescript, C, Dart, SQL, QML, Bash

**Frameworks/Tools:** Django, Git, Databases, Perforce, .NET, Firebase, Next.js, React, Flutter

**DevOps/Infrastructure:** Docker, Proxmox, Cloudflare, CI/CD, Networking, Virtual Machines

**Operating Systems:** Linux(Ubuntu server and Arch), Windows, Windows Server, MacOS



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