Dylan Spence
29 Sutton Drive • Cohoes, 12047 • dylanspence705607@gmail.com • 321-292-4540

Education

Rochester Institute of Technology   Rochester, NY
Bachelors with honors, Computer Science   May 2025

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- Designed a Gitlab synchronized web interface that improved our engineers project, and issue tracking by replacing an outdated excel spreadsheet.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.

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
App 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 backend components of the App including, Firebase database, user login flow, and a custom message interpretation engine.

Projects

Homelab Server Management   Docker, Cloudflare, Proxmox, Linux
- Assembled a custom built server running Proxmox
- Manage multiple Docker containers for self hosted services that route through Cloudflare to be exposed to the internet

Porthole   QML, Bash, Linux, Python, UI Design
- Maintain a set of repositories that together make up Porthole, a customized Arch Linux distribution.
- Assembled a set of Bash scripts that automatically install packages and setup dot files to build the distro.
- 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.

Personal Website   NextJS, Typescript, HTML, CSS
- Compiled relevant personal information into a single, easily navigable location.
- Designed to be centered around a single data.json file, so that the user simply has to update one file to dynamically update the rest of the sites content.

Technical Skills

Programming: Python, Java, C#, JS, TS, HTML, CSS, VB, C, Dart, SQL
Frameworks/Tools: Django, Git, API, PostgresSQL, MySQL, Unit Testing, Perforce, troubleshooting virtual machines, .NET, Firebase, Next.js, React, Flutter
DevOps/Infrastructure: Port management, Docker, hardware assembly, network tunneling, Cloudflare
Operating Systems: Windows, Windows Server, MacOS, Linux(Ubuntu server and Arch), Proxmox, TrueNAS
Other: Adaptability, Communication, Organization