Dylan Spence
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Education

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

Experience

Precision Optical Technologies   Rochester, NY
Software Engineering Co-op   January 2024 – August 2024
- Designed a project management web interface that connected to Gitlab and improved our engineers project / issue tracking by replacing the old cluttered 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 website / database, 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 build automation script in Jenkins that greatly improved efficency at which software was shipped.
- Enhanced main DLL library by adding to the test suit, fixing reported bugs, and adding requested features.

MIMIO   Remote
App Developer   July 2022 – December 2022
- Built a messaging app utilizing Flutter and Firebase, contributing to both GUI design and backend design such as user login flow and data management.

Projects

Homelab Server Managment   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, which is a customized Arch Linux distribution. These repositories include a set of Bash scripts that automatically install packages and setup dot files to build the distro, a Quickshell widget that makes up the desktop environment along with Hyprland, and a QT app that allows for configuration of the distro.

Personal Website   NextJS, Typescript, HTML, CSS
- Compiled relevant personal information into a single, easily navigatable location.
- Designed in such a way that the site is built from a single data.json file so information on pages like about, projects, experience, and skills can be easily changed whenever needed.

Skills

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