Dylan Spence

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Education

Rochester Institute of Technology
Bachelor's in Computer Science
🔗 https://www.rit.edu

Expected Graduation May 2025

August 2020 - Present

Experience

Mimio
App Developer
🔗 https://apps.apple.com/us/app/haikumi/id1632097536

July 2022 - December 2022
Remote

- Designed and implemented the underlying architecture of a cross-platform messaging application.
- Developed a novel syllable analysis engine for identifying Haiku poems within messages.

MKS Instruments
Software Engineering Co-op
🔗 https://www.mks.com/

January 2023 - July 2023
Rochester, NY

- Developed automation scripts to generate Windows .exe installers for various projects, significantly improving testing efficiency for the team.
- Additionally, contributed to the development and maintenance of the core DLL shared by all RF generators.

Precision Optical Technologies
Software Engineering Co-op
🔗 https://www.precisionot.com/

January 2024 - August 2024
Rochester, NY

- Added internal data analytic features to web server, providing actionable insights for the production, sales, and engineering teams.
- Collaborated on cross-platform (iOS, Android, Windows) app development used by customers to interface with custom hardware.

Projects

Production App

Developed GUI elements for cross-platform (Android and Windows) application enabling seamless customer interaction with custom hardware. Contributed to backend API enhancements and feature additions.

Work, React, Python, Electron

Personal Webserver

Designed and implemented a Django-based web server application for secure storage of private data (e.g., financial transaction history) on a private home server. Containerized components (web GUI, scheduler, PostgresSQL database) using Docker.

Personal, Django, Python, Docker, PostgresSQL

Homelab Server Management

Built and maintained a Proxmox-based homelab server using repurposed hardware. Deployed and managed various services using Docker.

Personal, Docker, Cloudflare, Portainer, TrueNAS, Proxmox

Skills

Languages

C#, Java, Python, Visual Basic, Dart, C, Javascript, Typescript, CSS, HTML

Frameworks and Tools

SQL, Django, Angular, React, GIT, .NET, Perforce, Troubleshooting Virtual Machines, Firebase, PostgresSQL, MySQL, Unit Testing, API

DevOps and Infrastructure

Docker, Portainer, Cloudflare, Network Tunneling, Port Management, Customer Computer Hardware Assembly

Operating Systems

Ubuntu, Ubuntu Server, Proxmox, TrueNAS Scale, Windows home, Windows Server