

NICHOLAS DAWSON

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I love solving challenging problems with technology. I'm a quick learner and can adapt well to new environments. I'm interested in full-stack web development, automation, consulting, and using cutting-edge technologies.

EDUCATION

Rochester Institute of Technology

B.S. Software Engineering

GPA: 3.88

Aug. 2020 - Dec. 2024

EMPLOYMENT

Applications Engineer Co-op, Teknic, Inc., Victor, NY (In-Person)

Aug. 2023 - Dec. 2023

- Provided consultative engineering advice and technical support to hundreds of customers using our servo/motion control products
- Created C++ and C# code examples and documentation for customers using our software servo controller
- Remotely tuned servo motors and performed servo sizing simulations

Software Engineer Intern, Steelcase, Grand Rapids, MI (In-Person)

May 2023 - Aug. 2023

- Developing AI-powered digital experiences to assist our internal operations and dealerships
- Implemented a web app from scratch to search and display analytics data to empower business leaders to make great decisions backed by data.
- Utilized: Azure, Vue, Nuxt, SQL, Azure Open AI Service

Full Stack Software Engineer Co-op, , Enfield, CT (Hybrid)

May 2022 - Jan. 2023

- Developing a cloud-based web app designed with the microservice architecture
- Optimized our search system to be 50% faster and take fewer API calls per search by syncing our tables with the legacy system tables.
- Improved user experience by implementing additional generated reports, and improved existing reports based on user feedback.
- Spearheaded the major version migration of our front end from Vue 2 to Vue 3.
- Utilized: JavaScript (Vue), Kotlin (Spring Boot), MS SQL, Jasper Reports, Agile, Pair Programming

Back-End Web Developer, Otomation Technologies Inc., Part-time (Remote) (15-20hrs/week)

Dec. 2020 - May 2021

- Implemented a web-based audio player that persisted with page changes
- Added 2FA to our authentication system using Google Authenticator
- Developed a drag-and-drop task management system
- Utilized: Vanilla JavaScript, jQuery, HTML, PHP, MySQL, and Bootstrap

IT Intern, Town of Portland, CT, Portland, CT

June 2016 - Aug. 2021

- Troubleshoot various issues with hardware, software, and websites
- Taking inventory of existing hardware and managing rollout of new hardware
- Worked with IT team to implement new technology/solutions like new computers and software

SKILLS

LANGUAGES: Python, Java, Kotlin, JavaScript, Vue, React, C, HTML, SQL, Bootstrap, Go, PHP

TECHNICAL SKILLS: Git, REST APIs, Agile, Documentation, Automation, Networking, Web Scraping, Pair Programming, TDD, Docker, Azure, GCP

PROJECTS

froggy.app (URL Shortener)

Aug. 2022 - Current

- A link shortener web application that provides analytics to users.
- Worked and collaborated on the application with my best friend to both practice our skills and learn new technologies.
- Utilized my experience and interest in web technologies/security to ensure the app is following best practices for development and deployment.
- Learning Go, Gin, Google App Engine, Docker to develop the application.

Archiver For Google Photos (Personal Project)

Jan. 2020 - Current

- Developed an open-source CLI using Python and Google APIs to download/sync media to a local device
- Implemented software improvements using user feedback/bug reports/developer collaboration
- Documented user-friendly software instructions

Chromebook Repair Management Tool (Personal Project)

Jan. 2019 - Mar. 2020

- Developed GUI application using Python, PyQt5, and Google APIs to automate Chromebook repair process for Portland School district
- Reduced process time by more than 20x
- Built on my own time as my capstone project

VOLUNTEERING

Society of Software Engineers, Mentoring Head / Mentor

Jan. 2023 - Current

Helping software engineering/computer science students with their coursework. (4hrs/week)

Scheduling/Managing our 15+ mentors, and ensuring our mentors have the resources needed to support students.