

# NATHAN STROBL

Third-year Software Engineering student seeking full-time internships/co-ops starting May 2025; experience with a variety of technologies and languages, with a strong passion for full-stack web development and embedded programming.

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## EDUCATION

### Rochester Institute of Technology

Bachelor of Science in Software Engineering, Minor in Cybersecurity

Immersion in the Science of Film, Photography, and Imaging

expected graduation Spring 2027

Rochester, NY

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, HTML, CSS, C, C++, Go, Python, SQL, C#, Java, Bash Shell

**Operating Systems:** macOS, Linux, Microsoft Windows

**Developer Tools:** Visual Studio Code, IntelliJ IDEA, Vim, Git, Shell Scripting, CI/CD, Maven, Jest, JUnit, Pytest

**Technologies/Frameworks:** Docker, Caddy, Node, ExpressJS, ReactJS, Angular, Gin, HTTP, PostgreSQL, MongoDB

## PERSONAL PROJECTS

### GlyphMaker | SvelteKit, TypeScript, Go, Gin, PostgreSQL

January 2025

- Developed a Svelte-based web application to expedite the creation of custom 8-bit bitmaps and glyphs, mainly for use with embedded projects utilizing Adafruit GFX-compatible displays.
- Implemented a custom REST API using Go, Gin, and PostgreSQL to allow users to store their data and share glyphs between each other.

### Personal Web Server | Linux, Caddy, Docker

January 2025

- Configured a web server using Alpine Linux and Caddy, utilizing Docker to containerize various software modules.
- Implemented Immich for automatic photo backups from mobile devices.
- Set up a media server to organize and store files from DVD and Blu-ray discs.
- Manage hosting for multiple websites, including a personal portfolio and the GlyphMaker API and application.

### RIT Auxiliary Services Portal | JavaScript, ReactJS, Python, Flask

January 2024

- Built an online web portal to centralize a suite of internal tools made by RIT Auxiliary Services student staff.
- Reverse-engineered REST APIs to integrate other services into our applications.
- Employed Flask for server-side communication with APIs and data processing.
- Collaborated with two fellow student employees to design and build this application.
- Improved the workflows of Auxiliary Services staff by automating repetitive tasks and streamlining complex processes.

### CartCockpit | C/C++, Arduino

August 2023

- Created an Arduino sketch that can transform an Arduino board and some additional components into a dashboard for golf carts, closely resembling those found in automobiles.
- Designed a user-friendly interface that utilizes custom fonts and glyphs, optimized for visibility even at far distances.
- Gained experience in electronics and wiring, including circuit assembly and troubleshooting.

## WORK EXPERIENCE

### Rochester Institute of Technology

January 2023 – Present

Auxiliary Services Technician (Tier II Student Employee)

Rochester, NY

- Providing comprehensive technical support to the Dining division of RIT, focusing mainly on addressing issues with POS equipment and deploying new computer setups.
- Resolving issues through the ServiceNow ticketing system; successfully completed over 1,800 tickets.
- Collaborating with coworkers on university-wide data management projects.
- Mentoring and assigning work to over five new student employees.
- Developing and maintaining internal tools to optimize repetitive tasks.

## EXTRACURRICULAR

### RIT Electric Vehicle Team (EVT)

March 2025 – Present

Firmware Team Member

Rochester Institute of Technology

- Developing hardware drivers in C++ to control I2C and SPI devices, enabling communication with EVT's custom PCBs via CANbus.
- Worked alongside other EVT members to integrate software features into electric racing bikes.

### RIT Linux Users Group (RITlug)

August 2023 – Present

Core Member

Rochester Institute of Technology

- Attending meetings that focus on discussing and exploring various Unix-like operating systems, networking technologies, Linux software, and more.
- Connecting and collaborating on Linux-related projects with fellow RITlug members.