Nathan Strobl

Third-year Software Engineering student seeking internships/co-op opportunities 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   **expected graduation Spring 2027**
Bachelor of Science in Software Engineering, Minor in Cybersecurity   *Rochester, NY*
Immersion in the Science of Film, Photography, and Imaging

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, C, C++, Go, Python, SQL, 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.
- Gained experience with full-stack web development.

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.
- Strengthened proficiency in low-level programming through this project.

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 1,400 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 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.
- Giving presentations centered around the use of Unix in Apple's macOS.