

# Ethan Girouard

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## SKILLS

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- **Languages:** Rust, C++, Nix, PHP, Haskell, Java, TypeScript, HTML, CSS, Python, Visual Basic, Dafny, Erlang, R, Prolog
- **DevOps / Cloud:** Kubernetes, Docker, Terraform, Cloudflare, Acquia
- **Platforms / Libraries:** NixOS, Android, Embedded Development, PostgreSQL, MongoDB, Apache, Nginx, wxWidgets, Leptos, Dioxus, jQuery, CMake, CORBA, TailwindCSS, React, Next.js
- **Other:** Local LLM, Atlassian Agile, DNS, CI/CD

## EXPERIENCE

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**New York State Office of IT Services - WebNY** | Albany, NY May 2024 - Present

IT Specialist 2 Programming | Platform Team

- Created extensive documentation for migrating ny.gov sites' universal navigation banner to Cloudflare Workers
- Developed an internal dashboard tool using PHP to analyze millions of daily requests from Cloudflare, supporting the team in blocking malicious activity and reducing hosting costs
- Responsible for writing code to generate traffic reports, permission audits, platform entitlement warnings, and more used by WebNY teams

**Zedbruh** | Troy, NY October 2023 - Present

Chief Technology Officer

- Developed mesh networked sensor device for data collection for a building upgrade planner web app
- Managing Kubernetes cluster, company hosted services, DNS, SSL, designing and implementing software infrastructure

**Electronics for Imaging** | Londonderry, NH June 2022 - May 2024

Software Engineering Intern

- Built a C++ wxWidgets application for testing low-level functionality on wide-format industrial inkjet printers, greatly reducing printer install and on-site maintenance turnaround times
- Implemented a config file monitoring and reloading system to eliminate need for printer downtime while changing configuration

**VEX Robotics Team 99119A** | Plymouth, NH August 2018 - June 2022

Programmer, Builder, Team Captain

## SELECTED PROJECTS

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**LibreTunes** | Troy, NY December 2023 - Present

Team Lead, Full-Stack Developer

- Leading development on a full-stack Rust web music player, using the Leptos web framework
- Designing and implementing advanced features such as shared playlists and sync play with websockets

**DevMan** | Montreal, QC January 2024

ConUHacks VIII

- Built a GitLab DevOps pipeline running on Kubernetes to build, test, and lint code in a popular open-source project
- Wrote an automated AI pull request feedback bot to help projects maintain code quality and correctness
- Won DevOps prize from the Canadian Communications Security Establishment

**FinVis** | Troy, NY August 2023 - December 2023

Team Lead, Full-Stack Developer

**AutoBoard** | Plymouth, NH

September 2021 - August 2022

**Soteria** | Troy, NY

November 2022

Full-Stack Developer

**CarpeHora** | Montreal, QC

January 2023

Mobile Developer

**Selfhosted Server Administration** |

2020 - Present

## EDUCATION

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**Rensselaer Polytechnic Institute** | Troy, NY

August 2022 - December 2025

Bachelor of Science - Computer Science | Minor - Economics of Quantitative Modeling

- GPA 3.76, Dean's List
- Letter of recognition for performance in Data Structures course
- Rensselaer Medal Award (2021)

**Plymouth Regional High School** | Plymouth, NH

August 2019 - June 2022

- GPA 99.66
- Third Honors