

Ryan Prairie

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Education

University of Windsor

Honours Computer Science B.S.

Windsor, ON

2018–Expected 2023

Coursework: Data Structures/Algorithms, Computer Networking, Network Security, Discrete Math, Databases, Operating Systems, Compilers

Experience

Trexo Robotics

Robotics Fullstack Software Developer Intern

Mississauga, ON

May 2021–August 2021

- Developed backend features in **Kotlin** with **Spring**

University of Windsor Computer Science Society

Head of Technology

Windsor, ON

June 2020–Ongoing

- Overhauled and containerized a **Ruby on Rails, PostgreSQL, Sidekiq, and Redis app** with **Docker Compose**
- Developed a quiz webapp using **Ruby on Rails, ReactJS, JavaScript, and GraphQL**
- Created a **Latex math mode** rendering utility with under **1 second** render and API response
- Developed a student wiki built with **Docusaurus, ReactJS, and Markdown**

BlackBerry

Systems Analyst Intern

Remote

May 2021–August 2021

- Led the design of a **CI/CD pipeline automation tool** in **Golang**, achieving over **5x faster deployments**
- Designed **CI/CD Pipelines** to automatically test, build, and release tools
- Developed a **ReactJS** and **Typescript** application that interfaces with a **REST API**

BlackBerry

System Software Developer Intern

Remote

Jun 2020–Aug 2020

- Developed frontend features using **ReactJS** and **JavaScript**
- Developed backend APIs using **Node.js, Koa, and GraphQL**
- Created a configuration translator to translate old format configurations to new format, saving **8 hours**

CIBC

Software Developer Intern

Toronto, ON

May 2019–Aug 2019

- Led the development of a service to be rolled out **nationwide**
- Developed full stack app with **SvelteJS, JavaScript, Python, Flask, and Oracle DBMS**
- Developed automated data uploading system to run weekly on 50 million entries, saving **10 hours weekly**

Projects

Buoy – Mesh VPN

- Mesh VPN made with **Golang**
- Custom designed **distributed peer discovery protocol**

imacry – Ransomware

- Ransomware made with **Golang**
- **500 MiB/s** concurrent file encryption and decryption
- Custom protocol built on **websocket**

Skills

Languages Python • Golang • TypeScript • JavaScript • Ruby • Java • HTML • CSS/SCSS • C

Technologies ReactJS • Flask • GraphQL • Docker • Linux • Networking • REST API • Git • Vim • SvelteJS • Ruby on Rails • PostgreSQL • MySQL •