

# Ryan Prairie

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## Skills

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**Languages:** Python, Golang, TypeScript, JavaScript, Ruby, Java, HTML, CSS/SCSS, C, Kotlin, Zig

**Frameworks:** ReactJS, Flask, SvelteJS, Ruby on Rails, Koa, Express

**Technologies:** GraphQL, Docker, Linux, TCP/IP, REST API, Vim, PostgreSQL, Nginx, Caddy, Ansible, Regex

## Experience

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### NVIDIA

Remote

Security Software Engineer Intern

May 2022–September 2022

- Security hardened Linux with Ansible, passing 93% of CIS CAT Assessor Tests
- Coordinated with multiple teams to integrate security rules into an operating system image

### Trexo Robotics

Mississauga, ON

Robotics Fullstack Software Developer Intern

January 2022–April 2022

- Created REST API to control wifi connectivity using D-Bus and Golang
- Optimized database queries, making queries 15% faster
- Implemented custom JWT authorization and authentication based on OAuth 2.0 in Golang

### University of Windsor Computer Science Society

Windsor, ON

Head of Technology

June 2020–Ongoing

- Led a team of 7 to develop a student wiki built with Docusaurus, ReactJS, and Markdown
- Developed a fullstack application using Golang
- Built a quiz webapp using Ruby on Rails, ReactJS, JavaScript, and GraphQL to be used in a major student event

### BlackBerry

Waterloo, ON

Systems Analyst Intern

May 2021–August 2021

- Led the design of a automation tool in Golang, achieving over 5x faster deployments on projects company wide
- Designed CI/CD Pipelines to automatically test, build, and release tools
- Facilitated cross-departmental collaboration to develop a ReactJS, TypeScript, and REST API app company wide use

### BlackBerry

Remote

System Software Developer Intern

June 2020–August 2020

- Developed fullstack features using ReactJS, GraphQL, Koa, and JavaScript
- Created a configuration translator to translate old format configurations to new format, saving 8 hours

### CIBC

Toronto, ON

Software Developer Intern

May 2019–August 2019

- Led the development of a service that was rolled out nationwide at all CIBC branches and is still used monthly
- Developed a fullstack application with SvelteJS, JavaScript, Python, Flask, and Oracle DBMS

## Projects

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### Buoy – Mesh VPN

- Concurrent design to maximize throughput and availability

### imacry – Proof of Concept Ransomware

- 500 MiB/s fully concurrent file encryption and decryption
- Custom protocol built on websockets with network jitter to hide heartbeat

## Education

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### University of Windsor

Windsor, ON

Honours Computer Science B.S.

September 2018–Expected April 2023

**Coursework:** Data Structures/Algorithms, Computer Networking, Network Security, Databases, Operating Systems