Ryan Prairie

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Skills

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

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

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

Experience

Trexo Robotics — **Mississauga, ON**
Robotics Fullstack Software Developer Intern — *Jan 2022–Apr 2022*
- Developed backend features in Kotlin with Spring
- Optimized database queries, making queries 15% faster
- Implemented JWT auth with go

University of Windsor Computer Science Society — **Windsor, ON**
Head of Technology — *June 2020–Ongoing*
- Overhauled and containerized a Ruby on Rails, PostgreSQL, Sidekiq, and Redis app
- Built a quiz webapp using Ruby on Rails, ReactJS, JavaScript, and GraphQL to be used in a major student event
- Created a Latex math mode rendering utility with under 1 second render and API response
- Led a team of 6 to developed a student wiki built with Docusaurus, ReactJS, and Markdown

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
- Coordinated with multiple teams to develop a ReactJS, TypeScript, and REST API app to be used company wide

BlackBerry — **Remote**
System Software Developer Intern — *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 — **Toronto, ON**
Software Developer Intern — *May 2019–Aug 2019*
- Led the development of a service that was rolled out nationwide at all CIBC branches and is still used monthly
- Developed full stack app with SvelteJS, JavaScript, Python, Flask, and Oracle DBMS
- Built automated data uploading system to run weekly on 50 million entries, saving 10 hours weekly

Projects

Buoy – Mesh VPN
- Mesh VPN made with Golang
- Architectued a concurrent design to maximize throughput
- Designed a custom distributed peer discovery protocol

imacry – Ransomware
- Proof of concept ransomware made with Golang
- 500 MiB/s fully concurrent file encryption and decryption
- Custom protocol built on websockets with random syncopation to hide heartbeat

Education

University of Windsor — **Windsor, ON**
Honours Computer Science B.S. — *Sept 2018–Expected Apr 2023*
Coursework: Data Structures/Algorithms, Computer Networking, Network Security, Databases, Operating Systems