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
– Improved system reliability and security by adding a reverse proxy, circuit breaker, and a firewall
– Optimized database queries, making queries 15% faster

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