

Ross Hill

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EDUCATION

Bachelor of Computing (Honours, Software Design) (SODE-P-BCH)
Queen's University

September 2016 - April 2020
Kingston, Ontario

PROFESSIONAL EXPERIENCE

Full Stack Developer *React, Redux, Django, PostgreSQL*
Doctalk

November 2020 - Present
Toronto, Ontario

- Responsibilities include UI and RESTful API development, software architecture, and cloud infrastructure
- Built a wiki with WYSIWYG editing and tracked changes to allow medical residents to collaborate on notes
- Created a custom email generator with drag-and-drop functionality, rich text editing, auto-save, and drafts
- Rewrote the React front-end of MedAffairs Xchange, Doctalk's flagship application
- Introduced best practices such as continuous integration, linting, code reviews, using environment variables for secrets, and using GitHub as a source code repository

Software Developer Intern *Java, Backbone.js, PostgreSQL*
Verafin

May 2019 - August 2019
Toronto, Ontario

- Created a software plugin that identifies high risk customers across hundreds of financial institutions based on transaction and biographical characteristics
- Made multiple upgrades and bug fixes to the user interface that were requested by Verafin clients

Software Developer Intern *React, Redux, .NET*
Nudge.ai

Summers, 2017 and 2018
Toronto, Ontario

- Created a web interface for Nudge employees to carry out administrative tasks such as managing users
- Implemented a system for receiving, verifying, and handling GDPR requests from users

PROJECTS

Mandelbrot Set in Rust *Rust, WebAssembly, Typescript*

rust-mandelbrot.netlify.app

- An interactive web application that lets you explore the Mandelbrot set fractal
- Features include setting max iterations and the number of worker processes to tune performance, rendering "Multibrot" sets by increasing the exponent parameter, and saving the fractal as an image

ReqWise *Node, Svelte, Google Cloud Platform*

github.com/rosslh/reqwise

- Designed and built ReqWise, a full-stack web application that helps web developers understand stakeholder needs, propose software requirements and designs, and seek approval from stakeholders
- Set up a deployment pipeline to Google Cloud Platform with continuous integration and end-to-end testing

ORGANIZATIONS

Director of Controls, Data, and Automation
Queen's Vertical Farming Team

October 2019 - April 2020
Kingston, Ontario

- In charge of running weekly meetings, setting goals, and providing technical assistance to team members
- The CDA team's goal is to build an automated system for adjusting environment variables, such as temperature or light intensity, in order to maximize crop yield

Software Developer
QHacks

April 2018 - March 2019
Kingston, Ontario

- Built the landing page for the hackathon and a web application which over 1800 students used to apply
- The websites were built with React and used GraphQL to retrieve data for the user interface

SKILLS

Programming Languages: JavaScript, TypeScript, PostgreSQL, Python, Node.js, GraphQL, Java, Rust
Libraries/Frameworks: React, Redux, Svelte, Express, Django, Flask, Vue, ProseMirror, ESLint
Infrastructure: Google Cloud Platform, GitHub Actions, LogRocket, Twilio, Sentry, Firebase