

Skills

- **Proficient:** Rust, Golang, Typescript, React, Angular, HTML, Node.js, SCSS, SQL
- **Familiar:** C++, C#, C, Swift, Python, Java, Kotlin, IOS, Android, PHP
- **Tools & Libraries:** Azure, AWS, GCP, Kubernetes, Docker, Jenkins, Bash, Linux, MacOS, GitHub, Git, Postgres, Redis, .Net Core, Redux, RxJS, JIRA, Confluence, Adobe XD, Figma, Web Assembly (WASM)

Work Experience

Cloud Developer at Royal Bank of Canada (RBC) *full-time Jan-Sep 2020*

- Designed, architected, built and deployed Kubernetes cronjob that shuts down development machines during non-workday hours, which saved the team \$5,000+ a month in Azure cloud on-demand compute costs
- Added functionality to RBC Kubernetes operator onboarding and deployment CRDs for RBC specific workloads. Specifically added support for Kubernetes Job, CronJob, and Horizontal Pod Scaling CRD
- Designed, architected, built and deployed DevOps focused React frontend to allow engineers quick access to the current state of deployed RBC applications on different AKS clusters which helped teammates reduce team debugging time
- Built multiple deployment and test pipelines with Jenkins for frontend, backend and cronjob applications
- Overall team goal: build RBC's application deployment pipeline giving bank developers access to Azure cloud services such as Azure Cache and Azure SQL through AKS (Azure Kubernetes Service)
- **Leveraged knowledge** in Azure, Docker, Kubernetes, Jenkins, Bash (Scripting), Golang, Java, React, Typescript, Python

Software Developer at Center for Mobile Innovation (Sheridan College) *part-time Sep-Dec 2019*

- Worked with Encore and Sheridan College to develop an emotional recognition system
- Used machine learning to create a facial expression classifier that strives to accurately determine a person's emotional response to specific stimuli (ex. Selling a product to a customer)
- Emotion detection model worked in real-time and had an accuracy of 75%
- **Leveraged knowledge** in Python, TensorFlow 2 and Machine learning

Research Software Developer at Center for Mobile Innovation (Sheridan College) *full-time Jan-Apr 2019*

- Worked independently researching a fall detection algorithm for elderly care with PointClickCare
- Developed solution with 80% accuracy utilizing human poses estimation and machine learning
- Communicated with stakeholders and presented final project to PointClickCare and Sheridan during at showcase.
- **Leveraged knowledge** in Web browsers, Matlab, C++, Node.js, Machine learning and Typescript

Digital Innovation IS Developer at Maple Leaf Foods *full-time Apr-Aug 2018*

- Developed IOS mobile application that was deployed to 175 FSQA managers, supervisors and technicians which allowed them to spend significantly more time (~25%) on production floor
- Developed backend application in .Net MVC 5 to support IOS mobile app, deployed on Azure
- Reduced query times by optimizing Entity Framework queries, enabling faster searches over multiple table joins
- **Leveraged knowledge** in Swift, IOS, .Net MVC 5, TypeScript, VSTS, and Azure

Junior Web Developer at Government of Ontario *full-time Sep-Dec 2017*

- Gained proficiency with Angular 2+ through working on two frontend projects
- Developed workflow for new projects implementing Angular 2+ with best practices
- Effectively learned and used Azure, VSTS, Angular 2+, .Net Core 2, and NoSql to quickly develop user interface, and anticipate and react to UX needs
- **Leveraged knowledge** in Angular 2+, .Net Core 2, NoSql, Azure and VSTS

Education

Candidate for Honours Bachelor of Computer Science in Mobile Computing

Sheridan College, Oakville, ON (2019-2021) – GPA: 3.85

Advanced Diploma in Software Development and Network Engineering

Sheridan College, Oakville, ON (2015-2018) – GPA: 3.84

Major Software Projects

Wasm Compute (Personal Project)

- Web platform that runs custom web assembly functions in the cloud.
- Developed everything from backend lambda logic, end user framework and cli that compiles project and uploads the project to the Wasm Compute platform
- Used AWS and terraform to deploy infrastructure, software onto EC2 instance and binaries inside S3 bucket
- **Leveraging knowledge** in Rust, Web Assembly, Golang, React, Typescript, AWS, Terraform, Postgres, Github, Nginx

Budgetise, a Budgeting application for Franchise Owners (Capstone Project) Jan-Dec 2017

- Collaborated with a team of four to produce a solution to a franchise owner's problem
- Designed and developed a budgeting application with features like live updating and change history
- **Leveraged knowledge** in Angular 2+, Typescript + Node.js, Express, Postgres, Digital Ocean, Nginx, Auth

Hackathons

RBC AmpHack Igloo Connect Jan 10-12th 2020

- Placed 3rd overall competing against 14 teams with idea *Igloo Connect* which helps immigrants come to Canada
- Helped by leading team in brainstorming and creating React tech demo to be used inside of presentation
- **Leveraged knowledge** in React, Typescript, Presentations

RU Hacks Work Spaces May 15-17th 2020

- Built in the browser, users could connect to each other over WebRTC and talk to each other over the internet. I worked on developing the game canvas as well as the WebRTC connection between the server the clients
- **Leveraged knowledge** in Typescript, Nodejs, Phaser, Socket.io (Web Sockets), Express, WebRTC, GCP

Starter Hacks StreamON Jan 10th-12th 2020

- Built a google chrome extension that would connect to a Nodejs server using web sockets. Once connected to the server, users can trigger an Alexa voice action to move a stream from their phone to their computer
- **Leveraged knowledge** in JavaScript, Chrome extension, Nodejs, Socket.io (Web Sockets), Express, AWS

Minor Software Projects

Personal Website

- Developed in Gatsby, using markdown to generate content using BEM styling methodology for css.
- **Leveraged knowledge** in GatsbyJS, GraphQL, Javascript, Git, Markdown, Adobe XD

Bomb Finder (Minesweeper Clone)

- A minesweeper clone with added features to save games, save statistics as well as customize look and feel of game
- **Leveraged knowledge** in Typescript, React, IndexDB, Canvas2D, Git

Volunteering and Extracurriculars

Hackademics Vice President, Fall 2020-present

- Secured \$12 000+ support from RBC, Sheridan Sustainable Department, Sheridan Student Union for Hackville 2021
- Lead team of 4 in developing hackville.io and hackademics.club. Leading team to develop backend applications to be deployed on digital ocean to support club functions
- Determining the direction of club engagement, development and virtual participation. Introduced 50+ people to hack culture. Mentoring, delivering tasks and updates to communication, marketing, social media, design and tech teams

RBC Student Leader, Summer 2020

- Planned games and encouraged community involvement between students at RBC

Hackademics, September 2019-April 2020

- Secured \$1,000 in funding from RBC and deploy and maintain hackathon site for Hackville 2020