

## Skills

- **Proficient:** Java, Typescript, Angular, Rust, Golang, React, HTML, Node.js, SCSS, SQL
- **Familiar:** C++, C#, C, Swift, Python, 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

### FullStack Developer at Royal Bank of Canada (RBC) *full-time May 2021 - Present*

- Implementing frontend features: progress banner for payments and HTTP polling for payment status
- Developing proof-of-concept search for finding business payees from multiple payee databases
- Effectively debugging, identifying, and fixing bugs on the frontend: loading issues, correcting content, styling bugs
- Creating proof-of-concept application which automates pull requests into Github repositories when content designers create translation changes. Application would attempt to find translation files inside of repository
- **Overall team goal:** build RBC next generation business payment portal utilizing Angular and Backbase
- **Leveraged knowledge** in Angular 8, RxJS, Typescript, Java, Kotlin, Spring Boot, Vue 3

### Cloud Developer at Royal Bank of Canada (RBC) *full-time Jan-Aug 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 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, Golang, Java, React, Typescript, Python

### Software Developer at Center for Mobile Innovation *part-time Jan-Apr & Sep-Dec 2019*

- Researched fall detection for elderly care with PointClickCare; developed emotional recognition model for Encore
- Developed solution with 80% accuracy to estimate fall detection utilizing human poses and machine learning
- Created real-time Facial Expression Classifier Emotion detection model with accuracy of 75%
- Communicated with stakeholders and presented final project to PointClickCare and Sheridan during at showcase
- **Leveraged knowledge** in Python, TensorFlow 2, Matlab, Node.js, C++ 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

## Education

### Honours Bachelor of Computer Science

Sheridan College, Oakville, ON (2019-2021) – Anticipated Graduation Date: **December 2021**

### Advanced Diploma in Software Development and Network Engineering

Sheridan College, Oakville, ON (2015-2018)

## Major Software Projects

### Wasm Compute (Personal Project) – [read more](#)

- 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, WASM, Golang, React, Typescript, AWS, Terraform, Postgres, Github, Nginx

### Budgetise, a Budgeting application for Franchise Owners (Capstone Project) Jan-Dec 2017 – [read more](#)

- 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 10-12<sup>th</sup> 2020 - [github](#)

- Placed 3<sup>rd</sup> 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 15-17<sup>th</sup> 2020 - [devpost](#)

- 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-12<sup>th</sup> 2020 - [devpost](#)

- 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 - [github](#) / [website](#) / [read more](#)

- 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) - [github](#) / [website](#) / [read more](#)

- 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-April 2021

- 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 75+ people to hackathon culture.

### 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