

EDUCATION

University of Waterloo - B.A.Sc. Honours Computer Engineering (GPA: 3.7/4).

Sept. 2016 – Apr. 2021

SKILLS

(Proficient) : Go, JavaScript, Java, SQL, React, Node.js *(Certified)*: AWS Solutions Architect – Associate 2019

(Familiar) : Python, PHP, C/C++, AngularJS, MobX, Redis, Next.js, MySQL, Postgres, Docker, Plaid, Stripe

EXPERIENCE

Software Engineer (Backend) – *Snowflake Computing Inc*

San Mateo, CA | Sept. 2020 – Now

Team: Snowflake UI – web interface for administrating and querying Snowflake DB

- Redesigned existing backend job queue to support better concurrency and management of jobs
- Improved shareability of **dashboards** by creating feature which can export and import them as **JSON** files
- Leveraged: **Go** for writing **REST** api, data stored on **Postgres**; deployed using **Kubernetes** on **AWS** and **GCP**

Software Developer (Full Stack) - *Accenture Inc (Liquid Studio Division)*

Toronto, ON | Sept 2019 – Dec. 2019

Project: CounterFIT – blockchain solution which proves authenticity of luxury clothing items

- Wrote **JavaScript** smart contracts for **Hyperledger Fabric** private blockchain to handle product transactions
- Reduced monthly bill from **\$1500 to \$90** by using **Docker** on a fleet of **EC2** instances to run the blockchain network instead of **AWS Managed Blockchain**
- Optimized wallet load times from **3s to less than 0.5 s/call** by utilizing **EBS** volumes instead of **S3** for storage
- Leveraged: **React-Native** with **Cognito**, **Node.js REST** backend, blockchain smart contracts written in JavaScript, deployed using **Docker** on **EC2** instances with **DynamoDB** and **S3**

Software Engineer (Backend) – *Kik Interactive Inc.*

Waterloo, ON | Jan. 2019 – Apr. 2019

Project: KikX – integrate Kin cryptocurrency into the Kik messaging app

- Created 25,000+ daily spenders of the **Kin cryptocurrency** by implementing **RxJava gRPC** handlers in microservices
- Scaled services to handle **up to 200 calls/second** by implementing a **Redis** cache on database layers
- Increased **DDoS** protection by using rate limiters on server endpoints created with Redis to cache request information
- Leveraged: **RxJava** for implementing **gRPC** handlers, data stored on **MySQL** and **DynamoDB**, **JUnit** tests with **Guava**, distributed system managed using **Zookeeper** that is run on **AWS**

Software Developer (Full Stack) – *Localyyz Inc*

Toronto, ON | May. 2018 – Aug. 201

Team: Localyyz – mobile retail and accessories sales platform

- Designed novel “**product score**” which ranks products out of 100 that indicates how likely the product is to sell based on its metadata
- Improved product sharing by using **Branch.io** to build deep linking into the app from social media
- Increased user **session time** by 10% through creating a double tap to like feature (similar to Instagram)
- Leveraged: **React-Native** with **MobX** for app, **Go REST** api, data stored on **Postgres**, deployed on **Digital Ocean**

Front End Web Developer – *Teranet Inc*

Toronto, ON | Sep. 2017 – Dec. 2017

Team: GeoWarehouse – property tool for real estate agents

- Improved code coverage from **37% to 92%** by writing tests and refactoring large portions of front-end code
- Leveraged: **AngularJS** (1.x) for frontend development, **LESS** for stylesheets, **Protractor** for e2e testing

PROJECTS

micro-donation (www.microdonation.ca)

Sept 2020 – Now

- **React** web app written with **Tailwind** that round's up a user's daily purchases to donate the “change” to charity
- Recurring credit card payments handled using **Stripe** and **Plaid** on **Go serverless functions** run on **AWS Lambda**