

Summary of Qualifications

Software developer with 5+ years of programming experience. My interests range from web development to quantum computing, with a passion for high-quality software development.

Projects

SMS DIRECTIONS | 2021

- A **Node.js** server that uses **Twilio** to respond to **SMS messages** with directions and jokes.
- Interfaces with **Google's Directions API** to find routes for various transportation modes.
- **Automated deployments** and **HTTPS** certificate management with **Github** and **Heroku**.

PLAYLIST MANAGER | 2020

- An android app developed in **Kotlin** using **Android Studio** which plays Spotify playlists.
- Designed using an **MVVM architecture** and implements **Dependency Injection**.
- Interacts with the **Spotify Web API** and stores the responses in a **Room Database**.

GAME BOY EMULATOR (WIP) | 2021

- A cross-platform Game Boy emulator written in **C++** and developed in **VS2019**.
- Handles all opcodes correctly and capable of loading and running ROM files.

Experience

BACKEND DEVELOPER | MCAP | 2021

- Contributed to a project with **80+ RESTful Node.js microservices** written in **Typescript**.
- Optimized **MongoDB searching** to leverage built-in features, and expanded existing functionality, **decreasing search times by up to 20%** and improving throughput.
- Investigated and resolved issues with CI/CD pipelines in **Azure DevOps**.

FRONTEND DEVELOPER | MCAP | 2020

- Contributed to a **Typescript Vue.js** application for reviewing and underwriting mortgages.
- Developed application-wide components for improved **maintainability** and **consistency**.
- Handled session data with **Vuex ORM**, refactored components to use the **Composition API**.

CYBER SECURITY DEVELOPER | CYNORIX | 2020

- Contributed to a **Node.js** cloud storage project using **MongoDB**, with **C#** and **Android** clients.
- Implemented **streams and pipes** for large server requests, **reducing upload times by 75%**, download times by 30%, and increasing the **maximum supported file size by 500%**.

QA SPECIALIST | MIKUTECH / JOYDROP LTD. | 2019

- Developed a **Node.js** server with **PostgreSQL** to run a **RESTful API** that handled **200+ signups**.
- Wrote various business utilities with **Python**, **.Net Core + Blazor**, and **React + TypeScript**.
- Implemented **unit, integration, and regression** tests for various projects on **AWS**.

Education

BACHELOR OF COMPUTER SCIENCE CANDIDATE | UNIVERSITY OF WATERLOO

- In term **3B**; Relevant courses: Algorithms (CS 341), Principles of Programming Languages, Data Structures and Data Management, Object-Oriented Software Development.