

RYAN MORO

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📍 Vancouver
(Open to relocation)

EDUCATION

BSc Computer Engineering

University of Alberta 2021

SKILLS

Programming

Java JavaScript C C++ Python

C# VBA PHP SQL

HTML CSS XML VHDL Assembly

Database

MongoDB Firebase MS Access

MySQL PostgreSQL SQLite

Tools/Frameworks

Git Android Studio VSCode

React React Native Node.js GraphQL

MATLAB Linux/Unix .NET Core

Hardware

Arduino FPGAs LTSpice

Cadence Oscilloscope

Circuit analysis & design

References available upon request

WORK EXPERIENCE

SYSTEMS ADMIN / DEVELOPER

2021-Present

Obsession: Bikes

- MS Access database design and automation using forms/queries + VBA for product creation, SKU assignment, pricing updates, exporting
- Led pilot project using PERN stack to replace legacy product management system to improve functional ability and throughput
- Scraped data with Python from manufacturer product catalogs to store organized product attribute data for eCommerce site
- Improved usability of POS system for sales and service departments through UI design and functional upgrades
- Trained 3 employees and managed operations involving inventory, purchasing, shipping/receiving, IT support, accounting
- Built SQL queries to extract data from POS system for id linking, data preservation, custom sales/service data

OPERATIONS COORDINATOR

2018-2019

JV Driver Group

- Manage and track operations with IMS Fabtrack software via material takeoffs, purchase orders, shipping/receiving, spool/build progress
- Edited isometric drawings and cutsheets to streamline engineer revisions

PROJECTS

PRODUCT MANAGEMENT SYSTEM 🔗

2023

PostgreSQL, Express, React, Node, Sequelize, GraphQL

- Led the development of a new web based system to maintain product data from vendor price lists through to sales channels
- Designed custom taxonomy filters using Redux with two levels to avoid multiple requests when narrowing down an already fetched dataset
- Constructed a modular database design with GraphQL endpoints
- Automated table creation and population for testing

PERSONAL SITE 🔗

2023

PERN, Typescript, AWS, Docker, Jenkins, ESLint

- Site to showcase portfolio & hobbies using a production level toolset

INFO CENTRE & MARKETPLACE 🔗

2022

React Native, MongoDB

- Developed cross platform mobile app for client entry to the therapeutic use of psilocybin by providing information on published papers and companies involved in clinical trials & research
- Implemented dosage/tolerance calculators based on weight/desired results, along with a convenient marketplace
- Designed minimal and intuitive UI with nested navigation maintaining customer module for shopping cart, orders, and reports

BOOKTRACKER 🔗

2021

Java, Firebase, Android Studio, XML

- Collaborated with a team using Agile Scrum methodology to develop a book sharing Android application based on user stories
- Designed app structure, menus/navigation, Google Maps API integration and login using Firebase

CAPSTONE: HAPTIC TELE-MANIPULATION

2021

C++

- Advanced professions research project by setting up a simulated testing environment and documenting the library that the WAM robot arm uses

CUSTOM COMPUTER SHOP 🔗

2021

C#, .NET Core, MySQL, Azure, SendGrid

- Created eCommerce web app for buying customizable computers
- Utilized MVC architecture and AJAX for async price reflection
- Added customer module to provide secure login, order management, email authentication and account recovery

SNAKE AI 🔗

2020

C++

- Developed a snake game using the Arduino with a joystick and display where you compete against an "AI" snake utilizing Dijkstra's algorithm