

MARK LIU

Computer Science & Finance Undergraduate

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PROJECTS

BuySellBooks

React, Redux, Express, Node, MongoDB, Amazon S3, JWT

July 2020

- Fully functional online marketplace for students to buy and sell used textbooks built using React, Redux, Express, Node, and MongoDB
- Users can post pictures to Amazon S3, contact other users, favourite other users' posts, search and sort through posts, and edit or delete their own posts
- Utilized JSON Web Tokens for user authentication

Stock Predictor

Python (Pandas, NumPy, and Sklearn)

June 2020

- Stock prediction program using Python and machine learning
- Parsed historical data from the web into CSV files. Read, stored, and organized the data into Pandas dataframes
- Used NumPy and SKlearn to model data with Support Vector Regression, Decision Tree Regression, and many more to predict a stock's adjusted closing price with an accuracy of 93%

StreamerConnect

React, Express, Node, MongoDB

June 2020

- Full stack web application to help small Twitch streamers network and collaborate with each other
- Developed a RESTful API with Node, Express, and MongoDB
- Scalable and responsive front end built with React

Smart Focus: Pomodoro Timer - 1st place at Apps by Teens Hackathon 2020 (1/16)

Flutter, Dart

May 2020

- Time management mobile app based on the Pomodoro technique to help students study efficiently built using Dart and the Flutter UI toolkit

LANGUAGES

Java

Python

JavaScript

HTML

CSS

Dart

TOOLS/TECHNOLOGIES

React

Redux

React Native

Express

Node

MongoDB

Flutter

Git

Android Studio

AWS

ADDITIONAL INFO

- CFI Accounting Fundamentals Certificate: <https://tinyurl.com/y9bc4f58>
- Fluent in English and French
- Conversational in Mandarin

EDUCATION

Bachelor of Computing and Financial Management

University of Waterloo (incoming first-year student)

Sept 2020 - April 2025

- Awarded University of Waterloo President's Scholarship of Distinction

OSSD, Extended French Certificate

St. Aloysius Gonzaga Secondary School

Sept 2016 - June 2020

- Extended French Program, 97.33% Grade 12 Top 6 average

EXPERIENCE

Mobile Developer

Project Beck

June 2020 - Present Remote

- Startup to help those suffering from depression by guiding them through cognitive-behavioral therapy homework
- Worked with and team closely to develop the user interface using React Native, Framer, and Figma

Volunteer

Parliament Member's Campaign

July 2019

Toronto, ON

- Led my group to journey door to door and give presentations about the Parliament Member's campaign and their plans for the future
- Planned routes and delegated roles for group members to ensure the necessary neighbourhoods will be visited efficiently and on time
- Recorded and managed data regarding any interest or feedback in order to determine which neighbourhoods will be the most likely to support

Distribution Associate

Moen

July - August 2018 Oakville, ON

- Unloaded, scanned, sorted, and transported products to their specified locations
- Completed order picking with required shape, size, and quantity accurately