



JIA XIN (JACKSON) YUAN

Software Engineer Co-op @ Realtor.com | Year 3, Computer Science

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Work Experience

Realtor.com (Move Inc)

Software Engineer Co-op – Nurturing Platform Team

Sep 2019 – Present

- Migrated a geocoding API and wrote corresponding unit tests for part of the web platform's MapViews
- Learning technologies such as Node.js, AWS, TypeScript, React, etc. to work on a diverse array of features for the website

Tutor Doctor

Private Tutor

Aug 2019 – Present

- Assisting Grade 10-11 students taking Pre-Calculus to solidify their understanding of math by encouraging and guiding them through their homework and additional worksheets

Education

University of British Columbia

Bachelor of Science - Computer Science | Master of Management

Sep 2017 – Present

- **Relevant Coursework:** Software Construction, Computer Systems, Algorithms & Data Structures, Matrix Algebra, Multivariable Calculus, Probability
- **Award:** 2017-2018 Dean's Honour List

Skills

Programming Languages	Java, JavaScript, PHP, SQL, C++, C, HTML, CSS
Libraries & Frameworks	jQuery, Node.js, Express.js, JUnit,
Tools & Platforms	AWS, Google Cloud Platform, Git, phpMyAdmin, Expo

Projects

Full-Stack Blog (Personal Project)

PHP, MySQL, JavaScript, jQuery

Code: <https://github.com/jacksonyuanjx/BlogProject>

Hosted: <https://www.flyyanet.com/tol/>

- Designed relational database structures for the full-stack blog to keep track of users, blog posts, blog pictures, comments, etc.
- Used PHP along with MySQL to create login authentication system from scratch, allowing users to create accounts, change their profile picture, etc.
- Implemented password reset functionality by sending uniquely generated URLs through SMTP that redirects users to a personalized password reset page
- Considered security measures such as writing queries with prepared statements to prevent SQL injections, hashing all passwords and checking currently logged in user via sessions to grant/restrict access to parts of blog

URLIFY (Personal Project)

React Native, Google Vision OCR API, Expo

Code: <https://github.com/jacksonyuanjx/URLIFY>

Expo: <https://expo.io/@jacksony/urlify>

- Built a React Native app that uses RNCamera and Google Vision's OCR API to detect text from image taken
- Parsed API response to extract URLs and dynamically display them as buttons on a modal, where each button opens corresponding URL in device's native browser

GetDistracted (Personal Project)

HTML, CSS, JavaScript, jQuery, JSON

Code: <https://github.com/jacksonyuanjx/GetDistracted>

Web Store: <https://tinyurl.com/y678yf75>

- Built a Google Chrome Productivity Extension that enables website blocking which requires solving either a math problem or waiting on a timer to unblock
- Employed event-handling techniques using mainly jQuery with promises to handle asynchronous callbacks
- Learned to use Chrome WebRequest API to redirect URL requests and Cookies API to store the websites' information, while pulling data from cookies to dynamically display list of websites blocked

BusesAreUs (Academic Project)

Java, JUnit, JSON, XML, IntelliJ IDE

- Completed UBC Software Construction Term Project - developed an Android transit app that displayed real-time bus routes and arrivals/stops on a map GUI by parsing raw JSON/XML data
- Worked with Genymotion virtual emulator to test GUI and integration of visual components with code
- Wrote comprehensive JUnit test suites to improve code accuracy/robustness and to maintain high code coverage