Richard Chen

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TECHNICAL SKILLS

Programming Languages:	Swift, JavaScript, TypeScript, Java, Dart, Python, GraphQL, HTML, CSS
Databases, Frameworks, Libraries:	Redux, Node.js, React, Firebase (NoSQL), Flutter, PostgreSQL
Others:	Jira, Git, Junit, XCTest, XCode, Mocha

EXPERIENCE

Software Engineer Co-op (iOS Mobile), **Realtor.com**   Sep 2021 – Apr 2022
- Pioneer the refactor of the authentication and login layer from MVC to a Composable Architecture (Redux) framework
- Transition the Realtor.com iOS app from REST to GraphQL for core feature network calls
- Take ownership over features related to the user's account, authentication, and navigation experience
- Write detailed unit tests over features developed and support Quality Engineering in bi-weekly testing

Assurance Associate / Digital Accelerator, **PwC Canada**   Sep 2018 – Mar 2020
- Used Alteryx & Tableau to automate repetitive tasks processing, and visualizing multiple fiscal years' worth of financial data
- Assessed financial statements of multi-million dollar companies for compliance with GAAP (IFRS & ASPE)

SOFTWARE PROJECTS

Spotify Song Recommender (Technologies: JavaScript, React, Express, Node.js, Python, Flask, Scikit-Learn)   In-Progress
- Created re-usable React components for displaying songs results from the Spotify API and song recommendations
- Trained and improved the efficiency of a machine learning pipeline to return song recommendations using two-level retrieval combining KMeans and KNearestNeighbour models
- Set up a Flask backend to interface with the main Node.js server to retrieve song recommendations via HTTP methods

Course Grade & Campus Room Explorer (Technologies: TypeScript, Express, Svelte, Mocha)   Mar 2023
- Created an intuitive Svelte front-end enabling querying historical course grade information using and EBNF schema
- Efficiently parse JSON and HTML files using asynchronous TypeScript Promises to store relevant course & room information
- Connect front & backend using REST HTTP methods to enable CRUD functionalities

Payment Processor Simulator   Technologies: React, PostgreSQL, JavaScript, Express   Aug 2022
- Design and model a relational database for a payment processor in PostgreSQL
- Create HTTP endpoints in JavaScript on an Express/Node.js backend to enable CRUD functions
- Create re-usable React components to rapidly iterate on a front-end to demo transactional flows

HACKATHONS

AuditApp - Hack the North 2021 (Devpost)

Technologies: MongoDB, Express.js, React.js, Node.js, Google Cloud Document AI API, Google Cloud Storage API
- Created a platform for financial auditors to manage requests for documentation from their clients
- Use JavaScript to parse relevant financial information from invoices using Google Cloud Document AI and Google Storage API

EDUCATION

Bachelor of Computer Science, 4th Year,   Expected Graduation May 2024
The University of British Columbia, Vancouver, BC

Bachelor of Commerce (Accounting), Minor in Management Information Systems   Sep 2013 – May 2018
The University of Alberta, Edmonton, AB

EXTRACURRICULAR

Vice-President, **Bachelor of Computer Science Student Association**   Jan 2021 – Dec 2021
- Organized 28 social and career development events for BCS students in connection with alumni & employers
- Successfully planned a hackathon for BCS students with $4,000 in prizes and ~70 registrants