

Nancy Jiang

COMPUTER ENGINEERING · UNIVERSITY OF BRITISH COLUMBIA

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Education

University of British Columbia

Expected Graduation: May 2020

BASC IN COMPUTER ENGINEERING

- Recipient of the Trek Excellence Scholarship, awarded annually to the top 5% of students in each faculty
- Relevant Coursework: Software Construction, Algorithms and Data Structures, Microcomputers, Operating Systems, Linear Algebra, Multivariable Calculus

Skills

Programming Languages Java, C++, C, HTML/CSS, JavaScript, LaTeX

Web Development React, Node.js, Amazon Web Services (AWS)

Other Git, Vim, Android Studio, Raspberry Pi, Arduino

Experience

AbeBooks, an Amazon Company

Java, JavaScript, React, AWS

SOFTWARE DEVELOPMENT ENGINEER INTERN

May - September 2018

- Implemented a loading cache to store user credentials, reducing Purchase API runtime
- Built a responsive bulk-order web application using a React frontend running on a Node.js server
- Wrote a serverless AWS backend to service the web app using API Gateway and custom AWS Lambda functions written in Java

University of British Columbia

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TEACHING ASSISTANT

September - December 2017

- Assisted during lectures of 150+ students, by monitoring and guiding student progress on activity sheets
- Led a weekly lab section of 30 students

Code the Change UBC

Node.js, Postgres, React Native

SOFTWARE DEVELOPER

April 2017 - May 2018

- Code The Change is a student-run organization that provides free software for non-profits
- Developed a Node.js and PostgreSQL backend for an app that helps UBC students travel in groups at night
- Built the UI of a mobile app using React Native to help YES!Vancouver with outreach

Projects

Hykr

Java, Android Studio

A SOCIAL MEDIA HIKING APP BUILT DURING NWHACKS 2018

January 2018

- Built the UI of the app, aiming to provide a similar experience to Google apps using Material Design
- Integrated JSON data obtained from a public API to provide hiking route data
- Used Google Maps' API to display user's current location

Disaster Response Robot

Python, JavaScript

GROUP PROJECT USING A RASPBERRY PI

December 2017

- Programmed a Raspberry Pi controlled robot to avoid obstacles and take photos when a face is detected (using OpenCV)
- Built a web app to display photos and control robot with a virtual joystick
- Used a wifi module for communication between server and robot and a camera module for photo streaming

Yelp Database

Java, ANTLR

A DATABASE IMPLEMENTATION COURSE PROJECT

December 2017

- Implemented a database using Yelp datasets (JSON files) of restaurants, users, and reviews
- Used a multi-threaded server to support structured queries, which were parsed using ANTLR

Extracurricular

UBC Electrical and Computer Engineering Student Society (ECESS)

May 2018 - Present

PRESIDENT

- Enrich our 1100+ ECE students' academic, social, and professional experience through event organization and academic advocacy