

NATALIE NGAN

4th Year, Computer Science

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SKILLS

Languages:

Java
Python
C/C++

Web Development:

JavaScript
Node.js
HTML/CSS
React.js
Redux
Jasmine Framework
Webpack

Software/Tools:

Android Studio
Git
Unix/Linux
Adobe Photoshop

EDUCATION

University of British Columbia

Bachelor of Computer Science (BCS) Expected 2019

Current GPA of 3.67/4.00

Bachelor of Arts, Psychology and Family Studies May 2014

UBC President's Entrance
Scholarship, 2009 –
awarded for academic
excellence (94.5%)

NON-TECHNICAL WORK

Fido Solutions

May 2012 – Feb 2017

Keyholder/Wireless Sales Rep.

WORK EXPERIENCE

Software Engineering Intern, Google

Oct 2018 – Present

Java, Espresso, JUnit

- Working on an Android SDK that handles remote procedural calls to a Google API, developing the local storage/caching system and background services
- Delivering a sample app for clients, with complete documentation on integrating with the SDK

Agile Developer Intern, SAP

Sep 2017 – Apr 2018

JavaScript, SAPUI5, React/Redux, Jasmine Framework

- Successfully delivered 3 high-priority features for data visualization tools of SAP Analytics Cloud as the main developer of the features
- Wrote regression automation that covers over 3000 lines of code using Jasmine
- Assisted with migrating SAPUI5 modules to React-Redux components
- Received an internal SAP Appreciate Reward for going the extra mile to deliver a user story

Software Developer Intern, Fortify Communications

July – Sep 2017

Java, Android Development, Swift, Node.js, LoopBack.io, Realm, Retrofit, MixPanel

- Project owner for the in-house Android personality test app, responsible for design, development, and training developers for the project
- Built the app infrastructure to manage local database and handle API calls to the server, including user login, retrieving profiles, and posting test results
- Integrated MixPanel in Android and iOS apps to gather user's usage statistics

Teaching Assistant, University of British Columbia

July – Aug 2017

C, Assembly

- Provided tutoring to help students understand course materials during labs, office hours, and on the online discussion board
- Assisted the professor in marking assignments and exams, and invigilating exams

TECHNICAL PROJECTS

RentMe, a Property Rental Predictor

Python, Scrapy, Scikit-learn, Flask

- Created a Python web crawler using Scrapy that parses and converts raw Craigslist posting descriptions to quantifiable data in CSV file format
- Used Scikit-learn to train a Linear Regression model on property data to predict rental price
- Built a REST API using flask to expose GET method to return predicted rental price based on property parameters

QuickList

JavaScript, Mocha, Chai

- JavaScript library for creating arrays with amortized constant time for removing and adding elements at the front of the array
- Implemented behavior-driven testing using Mocha Framework & Chai
- Published on NPM: www.npmjs.com/package/quicklist

Photography Portfolio Website (www.NatalieAlaska.com)

JavaScript (ES6), React/Redux, Webpack, Babel

- A Pinterest-style photo gallery with responsive design by creating collapsible navigation & hamburger menu components, and image reflow for smaller screens
- Added load time optimization with code-splitting techniques and asset caching

Tic-Tac-Toe Android Game with AI Opponent

Java, Android Development

- Implemented the Minimax algorithm to find best game moves for computer opponent according to a difficulty level set by user
- Available on Google Play: <https://goo.gl/aUFdhP>