

# NATALIE NGAN

4<sup>th</sup> Year, Computer Science



nataliengan.github.io



github.com/nataliengan



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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 – Jan 2019

Java, Espresso, JUnit

- Delivered an Android sample app that integrates with an SDK for a Google API, serving as boilerplate code and integration guide for 3P app publishers to use in their product
- Developed a local caching system and background services that syncs client app with server
- Completed >10 bugfixes and features for the SDK, including semantic versioning and code obfuscation using Proguard
- Introduced a standardized SDK release process to step-through before each release

### Agile Developer Intern, SAP

Sep 2017 – Apr 2018

JavaScript (ES6), SAPUI5, React/Redux, Jasmine Framework, Webpack

- 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 that exposes a 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](https://www.npmjs.com/package/quicklist)

### 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>