NATALIE NGAN

4th Year, Computer Science



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May 2019 - Aug 2019

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EDUCATION

University of British Columbia

Bachelor of Computer Science (BCS) Expected 2020

Current GPA of 4.06 /4.33

Bachelor of Arts,

Psychology and Family Studies
May 2014

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

SKILLS

Languages:

Java Python SQL C/C++

Web Development:

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

Software/Tools:

Android Studio Google Cloud Spanner Unix Adobe Photoshop

NON-TECHNICAL WORK

Fido Solutions

May 2012 – Feb 2017 Keyholder/Wireless Sales Rep.

WORK EXPERIENCE

Software Engineering Intern, Google

Java, JUnit, SQL, Cloud Spanner

- Designed and developed advanced campaign budget monitoring and forecasting features, responsible for millions of dollars of budget being managed and thousands of transactions daily
- Implemented budget alerting/controls to fine tune spending and reduce susceptibility to spikes
 in abuse/virality, critical for the business need and confidence in the platform of at least 5 early
 access partners
- Successfully redesigned and migrated an existing database schema with an average query load
 of 300 queries/second without any service or development interruptions

Software Engineering Intern, Google

Java, Android Development, Espresso, JUnit

Oct 2018 - Jan 2019

- Delivered an Android sample app that integrates with the SDK for a Google API, serving as boilerplate code and integration guide for third-party developers
- Developed a local caching system that syncs client app data with server, used by at least 5 external publishers to reduce unnecessary calls to service
- Completed >10 bug fixes and features for the SDK in a 7-10-person team, including developing custom Proguard rules to downsize the SDK and external partner apps
- Introduced semantic versioning and SDK release process to step-through before each release

Agile Developer Intern, SAP

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

Sep 2017 – Apr 2018

- Successfully delivered 3 high-priority features for data visualization tools of SAP Analytics Cloud as the main developer of the features, one of which was major request of 9 customers
- Created regression automation that covers over 3000 lines of code using Jasmine
- Received an internal SAP Appreciate Award for going the extra mile to deliver a feature

Software Developer Intern, Fortify Communications

July - Sep 2017

July - Aug 2017

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

- Project owner and lead developer for Socionics Live!, responsible for initial app design, development, and training new developers for the project
- Built the app infrastructure to manage local database and handle API calls to the server, including user login, profile retrieval, and posting test results
- Developed system of usage logging and statistics in production Android and iOS apps

Teaching Assistant, University of British Columbia

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 descriptions of over 10,000 Craigslist postings 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