

# NATALIE NGAN

3<sup>rd</sup> Year, Computer Science  
[nataliengan.github.io](https://github.com/nataliengan)

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## SKILLS

### Languages:

C/C++

Java

Python

### Web:

HTML/CSS

JavaScript

JQuery

Node.js

### Tools:

- IntelliJ
- Android Studio
- Xcode
- Unix
- Git
- MacOS
- Adobe Photoshop

## EDUCATION

### University of British Columbia

**Bachelor of Computer Science,**  
Second Degree Program (BCS)

Expected 2019

Current GPA of 4.10

**Bachelor of Arts,**  
Psychology and Family Studies  
May 2014

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

## TECHNICAL PROJECTS

### Photography Portfolio Website ([www.NatalieAlaska.com](http://www.NatalieAlaska.com))

Apr 2017 – Present

- Currently adding mobile device compatibility
- Created an online photo gallery for my work as a freelance photographer
- Used JavaScript, HTML, CSS, JQuery, Bootstrap, Masonry.js, Featherlight.js to implement image slideshows, Pinterest-style layout, and interactive visual effects

### Tic-Tac-Toe Android Game with Computer Opponent

Jan – May 2017

- Used Java to implement the minimax algorithm to find best game move for computer opponent according to difficulty level set by user
- Created colourful GUI with XML through Android Studio to enhance game experience
- Available on Google Play: <https://goo.gl/aUFdhP>

### Miscellaneous C/C++ Projects (Academic)

Jan – Apr 2017

- Created an airport runway simulation by implementing queue functions
- Wrote Binary Search Tree functions to sort words and their frequencies in text files
- Solved the multi-threaded Cigarette Smoker's Problem and Unisex Washroom Problem using Mutex Locks and Semaphores

### TransLink Bus Android Application (Academic)

Nov 2016

- Completed an Android app to display Vancouver bus schedule and route in real time
- Used Java to parse and render JSON data provided by TransLink open API
- Designed and ran JUnit tests, and used the IntelliJ debugger and GenyMotion Android emulator to ensure the application runs seamlessly

## EXTRACURRICULAR ACTIVITIES

### MSFTHack 2017, ReciperBot

Mar 2017

- Created a Facebook messenger bot that analyzes photos of grocery items uploaded by users and suggests recipes available for the products
- Used Node.js, Microsoft Azure, Microsoft Cognitive Toolkit and Bot Framework to build an interactive conversation between users and the bot

### AxiomZen Hackathon, Two Can Dine WebApp

Mar 2017

- Used JavaScript, HTML, and CSS to develop a WebApp for users to exchange homemade meals and promote cultural diversity through food
- Responsible for the visual effects, such as interactive buttons and pop-up information windows, and user input forms

### Amazon Open Data Hackathon, New Westminster Helping Hub

Feb 2017

- Created a website for a community to exchange help during extreme weather conditions, to receive updates from the city, and to report road conditions
- Used JavaScript, HTML, CSS and Bootstrap to design an easy-to-use UI
- Won 3<sup>rd</sup> place in the hackathon

## WORK EXPERIENCE

### Wireless Sales Representative, Fido Solutions

May 2012 – Feb 2017

- Conducted debriefing of sales, policy, and promotion updates to a team of 11 staffs
- Provided customer service, technical support, and troubleshooting for mobile device
- Promoted to keyholder status within three months of employment

### Shift Supervisor, Starbucks

Jul - Nov 2015

- Organized the tasks of the team by supervising up to 7 staffs, provided coaching to team members, and managed store operations
- Promoted to Shift Supervisor status at Starbucks within one month of employment