

# Nancy Wang

3A COMPUTER SCIENCE/BUSINESS ADMINISTRATION DOUBLE DEGREE

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## Skills

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**Programming**   C++, Java, Python, C, Kotlin, Lua, SQL, Bash, JavaScript, HTML5, CSS3  
**Tools and Frameworks**   Android, Unix, Git, React, Bootstrap, Unity, Linux, LaTeX, Vim, Jenkins, SVN

## Experience

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### OPENTEXT

*Waterloo, Ontario*

#### MOBILE SOFTWARE DEVELOPER

*Jan 2019 - Apr 2019*

- Built a prototype in Java to demo the ability to perform offline data syncing using Wi-Fi P2P frameworks
- Implemented dynamic permission levels in Kotlin for improving ease of use of interface for over 10,000 users
- Increased the upload speed of documents to cloud by 10% using multithreading and refactoring existing code base in Android
- Migrated error reporting from Fabric to Firebase for conducting extensive data analysis on app performance
- Automated testing workflow with batch scripts, reducing weekly workload by several hours

### SKYWAVE

*Kanata, Ontario*

#### SOFTWARE ENGINEER

*May 2018 - Aug 2018*

- Improved the web service API to handle additional JSON requests, servicing over 100 employees
- Expanded test modules in Lua and integrated regression tests to Jenkins for validating product behaviours
- Optimized data metrics API through re-factoring 1000+ lines of code and removing existing layer violations
- Developed an automated script in C# which reduced time required for database generation by 5x

## Projects

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### PLACEHOLDER

#### HACK THE NORTH 2019

*Sep 2019 - Present*

- Designed a web application using React and Bootstrap to display real-time seat availability
- Programmed Raspberry Pi 3 in Python to distinguish between various levels of pressure and utilized Node.js to handle server requests

### PICBEE

#### UoF T HACKS VI

*Jan 2019 - Mar 2019*

- Developed and implemented an educational app used for teaching vocabulary with Dart and Flutter
- Leveraged Google Firebase for user authentication and database management
- Integrated IBM Watson's Visual Recognition API for generating random sequences of vocabulary words

### RECEIPTS TO RECIPES

#### RECIPE SUGGESTER FOR MEAL PLANNING

*Jul 2018 - Oct 2018*

- Built a Python program used for providing recipe suggestions from a receipt image
- Utilized Open CV and Tesseract to find contours of image of receipts and to convert the image to text

### SAFE TEXT

#### UoF T HACKS V

*Jan 2018 - Feb 2018*

- Tracker app that automatically alerts contacts in the event of an emergency
- Implemented SMS messenger, and GPS location tracker using Java in Android Studio

## Education and Interests

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### UNIVERSITY OF WATERLOO & WILFRED LAURIER UNIVERSITY

*Waterloo, Canada*

#### BACHELOR OF COMPUTER SCIENCE & BACHELOR OF BUSINESS ADMINISTRATION

*2017-2022*

**INTERESTS**   COOKING, TABLE TENNIS, DIGITAL ART, GAME DEVELOPMENT