# IAN **CHEN**

**3rd Year Computer Engineering Student** 

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# **EDUCATION**

### University of Toronto

Sep 2018 - Apr 2023

- BASc in Computer Engineering
- Minor in Artificial Intelligence
- Certificate in Engineering Business
- Cumulative GPA: 3.77 / 4.00

# **SKILLS**

#### Languages

- C++
- Javascript
- Java
- Python SQL
- HTML

# Frameworks/Scripting/Tools

- React
- Node.js • Git
- Bash

# **AWARDS**

- 2019 NewHacks Hackathon Winner
- 2018 2021 Dean's Honors List

# **RELEVANT COURSES**

- Algorithms and Data Structures
- Operating Systems
- Web Programming
- Databases
- Machine Learning
- Computer Networks
- Software Communication & Design

# WORK EXPERIENCES

# Intel

Software Engineer Intern

- Developing a component of Quartus to assist users for diagnosing problems in their designs.
- Coding in C++ to ensure user design violations are caught early in the compilation process.

# Amazon Web Services (AWS)

Software Dev Engineer Intern

- Deployed an internal service in Java with an automated pipeline to productionize the data processing step for the generation of database availability reports.
- Enhanced service capabilities to include jobs scheduling, metrics emission, logs storage, and anomalies detection using various AWS services.
- Wrote various unit tests and integration tests with EasyMock for the service to achieve code coverage of ~70%.

# Centivizer

#### Software Developer

- Implemented a new mode to their game using Socket.IO, which allowed players to compete with others both locally and online; resulted in a 25% increase of total users.
- Refactored company code in Node.js for sending data to their database which reduced the server costs by 10%.
- Developed the interface for the multiplayer game menu using HTML, CSS, and Javascript.

### YPCloud

Software Engineer Intern

May 2019 - Aug 2019 | Taipei, TW

- Developed a Snap application with Node.js to transmit data to company services running on the Linux platform which was used by 2 company clients.
- Wrote bash scripts to orchestrate system start-up tasks and to test other programs; the scripts were used in 80% of the company Linux servers.

# **TECHNICAL PROJECTS**

#### Mapperino

- Programmed with C++ with the GTK framework to implement a map system with features such as pathfinding and searching.
- Implemented various optimizations for graph search based on Dijkstra's algorithm and increased the quality of result by 30%.
- Reduced render time for OpenStreetMap data by 50% for faster user interface loading.

#### Money Manager

- Deployed a web application dedicated for personal finance management and community discussions.
- Worked with RESTful API development, the MERN stack, and Material-UI.

#### **Personal Bubble**

- Developed a web application using Python Flask which functions as a multi-purpose platform with features including music playlists and reminders.
- Worked with YouTube API to allow for user customization with the music playlists.

# **EXTRACURRICULARS**

# Leadership, Experience, Opportunities Club

**Club President** 

- Led over 150 members to serve the community by hosting 15+ events and fundraisers.
- Distributed food and clothing to over 90 homeless individuals and donated \$2000+ to local charities.

#### github.com/ianyechen/money-manager

#### github.com/ianyechen/personal-bubble

Sep 2014 - Jun 2018 | Surrey, BC

**UofT Course Project** 

# Sep 2019 - Feb 2020 | Toronto, ON

Aug 2021 - Current | San Jose, CA

May 2021 - Jul 2021 | Vancouver, BC