

Ian Chen

647-563-1098 | ianye.chen@mail.utoronto.ca
github.com/ianyechen | linkedin.com/in/chen-ian | ianyechen.github.io

EDUCATION

UNIVERSITY OF TORONTO

Sep 2018 – Apr 2022 | Toronto, ON

- BAsC in Computer Engineering
- Minor in Artificial Intelligence Engineering
- Certificate in Engineering Business
- Cumulative GPA: 3.81 / 4.00
- Honors: Dean's List (2018 – Current)

WORK EXPERIENCES

SOFTWARE DEVELOPER | CENTIVIZER

Sep 2019 – Feb 2020 | Toronto, ON

- 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 internal database which reduced the server costs by 10%
- Developed the interface for the game menu using HTML, CSS, and Javascript

SOFTWARE ENGINEER | YPCLOUD

May 2019 – Aug 2019 | Taipei, TW

- Built admin tools with Node.js which increased the accuracy of extracting company data used by other company services by 30%
- Created and published a Snap application to transmit data to services of the company ran on the Linux platform which was used by 2 company clients
- Wrote bash scripts to orchestrate system start-up tasks and to test user programs; the scripts were used in 80% of the company devices running the Raspbian operating system

SKILLS

TECHNICAL SKILLS

Node.js, C++, C, Python, HTML, Javascript, TypeScript, Git, Data Structures

RELEVANT COURSES

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

TECHNICAL PROJECTS

MAPPERINO (UofT Course Project)

- Programmed with C++ with the GTK framework to implement a map system displayed on a Graphical User Interface
- Implemented various optimizations for graph search based on Dijkstra's algorithm and increased quality of result by 30% while meeting the time restriction for search
- Reduced render time for OpenStreetMap data by 50% for faster user interface loading

STOCK BLOCK (Personal Project)

<https://github.com/ianyechen/stock-block>

- Developed a web application using Angular for getting real-time stocks information with Alpha Vantage API and storing personal transactions history and details with MongoDB
- Worked with RESTful API development, the MEAN stack, and Passport for user authentication

PERSONAL BUBBLE (Personal Project)

<https://github.com/ianyechen/personal-bubble>

- Built a web application using the Python Flask framework in aims of having only one platform for multiple purposes including music playlists and reminders
- Worked with YouTube API to allow for user customization with the video playlist

AWARDS

NEWHACKS HACKATHON WINNER

Mar 2019 | Toronto, BC

<https://devpost.com/software/newhacks2019>

- Worked in a team of 4 and developed a smart and automatic plants watering system using Python, Arduino and PySerial
- Implemented the GUI with Tkinter which displayed information about the plant and its water requirements
- Developed the feature of notifying the user via a text whenever the plant needs to be watered

EXTRACURRICULARS

CLUB PRESIDENT | LEADERSHIP, EXPERIENCE, OPPORTUNITIES CLUB

Sep 2014 – Jun 2018 | Surrey, BC

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