

My name is Jack Hu

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Skills

Languages: Java, Python, C, JavaScript, TypeScript, HTML, CSS

Technologies: NodeJS, ElectronJS, React, React Native, Firebase, MongoDB

Education

Candidate, BASc Computer Software Engineering

University of Waterloo 2019 - 2024

Term 1A

Relevant Courses: Programming Principles in C, Methods of Software Engineering

Experience

Junior Software Engineer Pin'd Inc.

Jul 2019 - Nov 2019 Toronto, ON

- Utilized the **React Native** framework to build venue description pages of a mobile social media app
- Developed backend data structures for venues with Firebase
- Designed basic data format/upload tool as a website using HTML, hosted with Firebase
- Created **admin tools** and functions to do database cleanup and linking/organization with **JavaScript, TypeScript and Python**
- Integrated MongoDB with existing Cloud Firestore database in order to reduce costs

President JA Southern Alberta

Oct 2018 - Mar 2019 Calgary, AB

President of The Scrunchie Company, a Junior Achievement company

- Planned and organized board meetings
- Relayed information to shareholders
- Ensured communication between departments
- General direction, creating an ROI of 200% after donating 50% revenue to charity

Projects

Flex Smart Mirror

Oct 2019 - Dec 2019 Personal

- Used **React** with **ElectronJS** to design a full-featured interface which would appear in a mirror, powered by a Raspberry Pi.
- Integrated smart mirror software with an **OpenCV**-based facial recognition system.
- Implemented the IBM Watson API to create an assistant with a trigger word.

Alien Tax Utility

Jul 2018 - Feb 2019 Personal

- Created utility that reads Excel sheets, formats the information and fills a PDF form using Java.
- Used Apache POI API to read multiple data types and sheets from one workbook.
- Utilized Apache PDFBox API to dynamically write data with certain tags from Excel sheet to ID'd input fields on a PDF form.

Text Encrypter

Apr 2018 - May 2018 Personal

- Devised a system to generate and hide a key for obfuscating data within a file.
- Wrote a converse tool which found a hidden key and decoded the file.
- Packaged an **executable** that would search its directory for compatible file types, then encode regular files and decode previously encoded files.