Jack Hu

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Skills

Languages: Java, Python, C/C++, JavaScript/TypeScript, JSON, HTML, CSS, SQL, UML
Technologies: Git, Node.js, React.js, React Native, Electron.js, Firebase, MongoDB, REST

Experience

Junior Software Engineer @ Pin'd Inc. ------------------------------ Toronto, ON | *Jul 2019 – Nov 2019*
- Developed cross-platform social media app using **React Native** with backend handled by **Firebase**
- Created the database schema for nightlife venues
- Designed data ingest tool using **HTML**, **JavaScript** and **Firebase**
- Implemented cloud functions for database maintenance using **TypeScript** and **Python**
- Migrated data from Cloud Firestore using **MongoDB** in order to reduce costs by 10-20% depending on users

President @ The Scrunchie Company ------------------------- Calgary, AB | *Oct 2018 – Mar 2019*
President of The Scrunchie Company, a Junior Achievement company
- Planned and organized board meetings, communicated information to shareholders resulting in an **initial investment of over $200**
- Effective team leadership led to finishing the program with a **return on investment of 200%** after **donating 50%** revenue to charity, equivalent to revenue of over **$1000**

Projects

Flex Smart Mirror -- *Oct 2019 – Dec 2019*
- Implemented a widget-based interface for a Smart Mirror using **React.js** and **Electron.js**
- Used an **OpenCV**-based facial recognition system to authenticate the owner
- Utilized the **IBM Watson API** to create an assistant with a trigger word

Schola --- *Oct 2019*
YHack project, a hardware-software combo that automagically streams lectures to a proprietary web portal.
- Created web portal for hosting a livestream with **React.js**, with authentication handled by **Firebase**
- Developed motion-tracking camera using **OpenCV** and an **Arduino**, allowing the professor to be kept in-frame

US Tax Utility -- *Jul 2018 – Feb 2019*
Assists property-owning American foreign nationals in filing tax returns by automatically filling out forms using a spreadsheet template, written **Java**
- Used **Apache Spreadsheet API** to read multiple data types and sheets from workbooks
- Utilized **Apache PDF API** to automatically classify input data and output to automatically downloaded PDF files
- Implemented design patterns such as **singleton** and **factory method**

Education

Candidate, Bachelor of Software Engineering (BSE)
University of Waterloo – 3.7 GPA ------------------------------------ 2019-2024 (Anticipated)

Certifications

- Big Data and Machine Learning Fundamentals (Google Cloud Platform Certified)