Jack Hu

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Skills

Languages: Java, Python, C/C++, JavaScript/TypeScript, JSON, HTML, CSS, SQL
Technologies: Git, Node, REST, React, Redux, React Native, Electron, Firebase, MongoDB, Express, Heroku

Experience

Full-stack Developer @ D2L ----- Toronto, ON | *May 2020 – Aug 2020*

- Developed a full-stack web application using **Mongo**, **Express** and **React/Redux**
- Envisioned and implemented a clean, responsive UI/UX favored by the design team
- Automated **continuous integration** and **delivery** with Github Actions and Heroku
- Balanced server load by implementing **PM2** clustering

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 data model in **JSON** format
- 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 **Mongo** in order to reduce costs by 10-20% depending on users

Education

In Progress, Bachelor of Software Engineering (BSE)

University of Waterloo – 3.9 GPA ----- 2019-2024 (Anticipated)

Projects

SpaceX Story ----- *Mar 2020*

- Created a web app using **React.js** to display SpaceX launch and landing info
- Implemented **Redux** to manage app-wide state, fetching data from open-source **REST** API

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

Certifications

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