Jason Hu

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in /hujason1
/HuIsJason
🌐 Portfolio

🎓 Education

University of Toronto　　　　　　　　　　　　　　　Sep 2018 – Present
Candidate, Honours Bachelor of Science　　　　　　　*Toronto, ON, Canada*

> Specializing in the **Entrepreneurship Stream** of **Computer Science Co-op** major

🍰 Experience

BlackBerry　　　　　　　　　　　　　　　　　May 2021 – Aug 2021
Software Developer Intern　　　　　　　　　　　*Waterloo, ON, Canada*

> Implementing **Kafka event**-based broadcasts and caching of device ACL rules by applying **Pub/Sub pattern** across multiple services, using **Kafka** and **Redis**

> Developing features in **Node.js-Redis** device registration service through **test-driven development** with **Mocha** unit testing and **Pact** contract testing for service interactions and APIs

> Modularizing common utilities across several **Node.js** services into an **npm package**

OpenText　　　　　　　　　　　　　　　　　Jan 2020 – Aug 2020
Software Developer Intern　　　　　　　　　　*Richmond Hill, ON, Canada*

> Created a document management app to demonstrate OpenText's cloud content management APIs and services, using **React**, **TypeScript**, **Redux**, **Material-UI**, and **React Router**

> Created a **Python Tornado** dashboard to display unit test results, using **D3.js** and **Bootstrap**

> Configured automated testing **Python script** to accommodate Windows VMs, using **PowerShell** and **Paramiko**

⚙ Skills

Languages　JavaScript, TypeScript, Java, Python, HTML, CSS, C
Libraries/frameworks　React, Express, Redux, Spring Boot, JUnit, Mocha
Tools/technologies　Node.js, Git, MongoDB, Redis, Neo4j, Jira
Methodologies　REST APIs, microservices, NoSQL, Agile Scrum, unit testing, TDD

⚗ Projects

Real Estate Agent CRM **– CRM web app**

> A customer relationship management web app for real estate agents to manage multiple clients' properties and profiles, built with **React**, **TypeScript**, **Node.js**, **Express**, and **MongoDB**

> Implemented full stack authentication flow from **React** login/signup pages to backend authentication, using **bcrypt**, **express-session**, **Mongoose**, and **Express middleware**

> Designed state management for session data and authorization, using **React Context API** and **TypeScript**

Planit **– Trip advisor mobile app**

> A full stack mobile app that generates vacation itineraries, built with **React Native**, **Redux**, **Java Spring Boot**, **MongoDB**, and **Google Maps API**

> Implemented itinerary manipulation such as adding and deleting specific events from the itinerary while shifting existing ones, as one of the main features

> Created **CRUD REST API** endpoints on **Java Spring Boot** backend for itinerary filters

Spotify-lite **– Backend microservices**

> A backend for a music player service composed of two **REST API microservices**, built with **Java Spring Boot**

> Stored user info in a **MongoDB collection** and playlists in a **Neo4j graph** respectively

> Wrote **Cypher graph queries** for nodes up to three relationship depths away