

Jason Hu

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in [/hujason1](#)
🌐 [/HuIsJason](#)
📁 [Portfolio](#)

🎓 Education

University of Toronto

Candidate, Honours Bachelor of Science

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

Sep 2018 – Present
Toronto, ON, Canada

💻 Experience

Systems Software Development Student

BlackBerry

May 2021 – Aug 2021
Waterloo, ON, Canada

- Implementing features in **Node.js-Redis** device registration service through **test-driven development** with **Mocha** unit testing and **Pact** contract testing
- Modularizing common utilities across vanilla **Node.js** services into a **TypeScript npm package**

Software Developer

OpenText

Jan 2020 – Aug 2020
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**
- Reduced document CRUD operation time by implementing a centralized document tree state structure in **Redux** to manage global application state
- 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, GitHub, 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