

Richie Shi | 3A Software Engineering

✉ rhjshi@uwaterloo.ca in rhjshi 🌐 rhjshi

LANGUAGES Javascript, Ruby, Python, Java, C++/C, HTML/CSS

TOOLS ReactJS, Ruby on Rails, Redux, NodeJS, Postgres, AWS, Git, Android

EXPERIENCE

FundThrough - Software Engineering Jan 2020 - May 2020, Sept 2020 - Present

- Built invoice factoring micro-service using **Ruby on Rails** to allow admin users to manage automatically generated advances and repayments for **1000+ clients**
- Streamlined on-boarding process for **over 20% of users** by creating reusable and customizable **React** components to make responsive, directive account setup system
- Integrated Plaid service on client-facing application to provide admin with client banking information using **Redux** and an API
- Wrote Rails task to migrate **10000+** invoices to maintain information and state consistency
- Created filtering system for admin team to allow quick searching by making dynamic **database queries** across multiple microservices using APIs
- Implemented Segment customer **data analytics** into user micro-service using Ruby on Rails to log data and track when users are created thru signup

Stratus 360 - Full Stack Developer May 2019 - Aug 2019

- Implemented a customer relations management service for clientele with **Canada-wide user base** using Salesforce platform
- Created reactive UI components in both Salesforce's **Aura** and **LWC** frameworks to give **3000+** users streamlined way to interpret and use data
- Wrote algorithms and processes using **Java** to automate administrative tasks involving large volumes of data
- Modeled objects in a **relational database** using **SQL** based on holistic descriptions

PROJECTS

YouTube Watch Party 🌐

- Built **React** and **Redux** application that allows different members of a room to queue YouTube videos simultaneously using Socket.io and YouTube API

WasteLands - Side Scroller 🌐

- Developed side scroller shooter game using **Python** and **Pygame** where enemy bots track and follow user to provide dynamic gameplay

EDUCATION

Candidate for Bachelor of Software Engineering, University of Waterloo, Expected 2023

Relevant Courses: Data Structures and Algorithms, Object-Oriented Design, Databases

EXTRACURRICULARS

Hackathons

Deltahacks, StarterHacks, HackWestern