

# Richie Shi | 3B Computer Science

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**Languages** Javascript, Python, Ruby, Java, C++/C, HTML/CSS

**Tools** React, MongoDB, Rails, Redux, NextJS, NodeJS, Postgres, AWS, Git

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## Experience

### Wish - Software Engineering

May 2021 - Aug 2021

- Full-stack engineer on marketplace content team using **Python, MongoDB**, React
- Wrote API load testing scripts using Locust.io to determine performance metrics of new external API used by **1000+** Wish merchants
- Created cron script to generate email **reports** for admin team that summarizes product removal analytics by aggregating and processing records from customer data platform using SQL and Python
- Rebuilt an existing content tagging queue to provide data science team with historical data
- Piloted Clarifai integration to test viability of API as an automated image tagging tool
- Implemented various UI changes and bug fixes to improve correctness and efficiency of admin tools

### FundThrough Inc. - Software Engineering

Jan 2020 - May 2020, Sept 2020 - Dec 2020

- Built invoice factoring micro-service using **Ruby on Rails** for admin to manage automatically generated advances and repayments for **1000+ clients**
- Streamlined onboarding 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 team with client banking information using **Redux** and internal APIs
- Wrote one-off script 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 Inc. - Full Stack Developer

May 2019 - Aug 2019

- Implemented customer relations management service for clientele with **Canada-wide user base**
- Created reactive UI components in both **Salesforce's** Aura and LWC frameworks to give **3000+** users a streamlined way to interpret and use data
- Modelled objects in a **relational database** using SQL based on holistic descriptions

## Projects

### US Election Data Visualizer

- Built and deployed to Heroku a full-stack application that provides visualization of 2016 US election data by parsing Kaggle dataset to populate database using Flask and SQL

### Personal Website

- Designed and implemented statically generated web app using React, NextJS, and SASS

## Education

**Candidate for Bachelor of Computer Science** - University of Waterloo

2018 - Expected 2023

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