

# ANDREW LIU

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## SKILLS

**Languages:** JavaScript, Ruby, Python, TypeScript, Java, HTML/CSS, C++, SQL

**Tools/Technologies:** React, Rails, Next.js, Elixir, Docker, Redux, Express, Node.js, Redis, Sidekiq, PostgreSQL, GraphQL, MySQL, Figma, Git

## EXPERIENCE

### theScore | Software Developer

Sep 2023 - Dec 2023

- Working as a part of the Sports Core team using **Elixir/Phoenix, Rails, and Node**.

### Drop | Back End Developer

May 2022 - Aug 2022

- Reduced fraud rates by **60%** after designing back-end service with purchase limit check algorithm in **Rails** and **Postgres**
- Developed internal tooling for admin portal to allow marketing and customer service teams to create important items with **ActiveAdmin** and **Rails**
- Increased user activity by **240%** after updating existing models with important fields to accommodate new redemption item release
- Implemented test suites with **RSpec** and type checking with **Sorbet** to ensure code reliability

### XE.com | Full Stack Developer

Sep 2021 - Dec 2021

- Developed new information card component with **React** and **Next.js** to standardize content layout on all XE marketing pages
- Reduced Cumulative Layout Shift by **35%**, increasing visual stability across pages to improve user viewing experience on XE's website
- Modelled and implemented pages in **Contentful** as part of a modernization of XE's category pages
- Increased user traffic by updating metadata to promote XE's **SEO visibility**

### Remitbee Inc | Full Stack Developer

Jan 2021 - Apr 2021

- Optimized queries in a **MySQL** database to decrease core platform load times by **15%**
- Implemented crucial bug fixes in **React** and **Redux**, improving client portal functionality
- Developed streamlined page templates with **React** and **Strapi CMS** by designing new components and refactoring existing code to be more dynamic
- Updated backend transaction flows using **Next.js** and **GraphQL** in preparation for new user group

### Waterloo Hyperloop Team | Software Developer

Dec 2019 - May 2021

- Built responsive page components using **React** and **TypeScript** for Waterloo's client facing website
- Collaborated with team to redesign and wireframe new website in **Figma** to display team information

## PROJECTS

### Re:Action

 Re:Action

- Developed a web app at Hack the Valley that allows users to query keywords and visualize relevant tweets according to their geographical locations around the world
- Used **React, TypeScript**, and a custom library to create a seamless and intuitive front-end
- Scraped relevant tweets using the Tweepy **Python** library to access **Twitter API**
- Stored tweets using **MongoDB Atlas** to be used later in data visualization

### Avarosa Bot

 Avarosa Bot

- Programmed web scraping Discord bot in **Python** to collect game user statistic information, allowing for easier access to relevant data by multiple users
- Used **BeautifulSoup** library to parse and analyze **HTML** data from statistics site
- Displays players' seasonal ranked statistics in the form of a Discord embed

## EDUCATION

### University of Waterloo

B.ASc in Computer Engineering

**Waterloo, ON**

Sept 2018 - Apr 2024