ANDREW LIU

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SKILLS

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

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

EXPERIENCE

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 Waterloop'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   **Waterloo, ON**
B.ASc in Computer Engineering   Sept 2018 - Apr 2024