Andrew Liu

3B Computer Engineering Student



EXPERIENCE

Drop | Back End Developer

May 2022 - Aug 2022

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

XE.com | Full Stack Developer

Sep 2021 - Dec 2021

- Developed new card component with React and Next.js to standardize content layout on all XE marketing pages
- Optimized Cumulative Layout Shift by 35%, increasing visual stability across pages to improve user viewing experience on XE's website
- Modeled and implemented Heroic pages in Contentful as part of an overhaul to modernize 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

- Decreased core platform load times by 15% by optimizing queries in a MySQL database
- 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 wire frame new website in Figma to display team information

PROJECTS

Avarosa Bot | Python

- Programmed a web scraping Discord bot in **Python** to collect player statistics for League of Legends, allowing for easier access to relevant data in a Discord server
- Used the **BeautifulSoup** library to parse and analyze HTML data from the statistics site op.gg

SKILLS

Languages

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

Frameworks & Tools

React, Rails, Next.js, Redux, Docker, Express, Node.js, Redis, Sidekiq, PostgreSQL, MySQL, GraphQL, Git

EDUCATION

University of Waterloo

Sep 2018 - Apr 2024

B.ASc in Computer Engineering

Interests

Volleyball

Photography

Keyboards

Music

Basketball