

ANDREW LIU

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SKILLS

Languages: JavaScript, TypeScript, C++, SQL, Python, HTML5, CSS

Tools/Technologies: React.js, Redux, MySQL, Express, Node.js, GraphQL, Sequelize ORM, Git, L^AT_EX, Excel, VSCode, Figma, Photoshop, Lightroom

EXPERIENCE

Full Stack Developer

Remitbee Inc

Mississauga, ON

Jan 2021 - Apr 2021

- Decreased Core platform load times by **15%** after restructuring a **MySQL** database to facilitate efficient queries
- Developed streamlined page templates with **React.js**, refactoring existing code to make components more dynamic and designing new components
- Generated **32%** new traffic on Remitbee's primary site via creation of new pages in **Strapi CMS**
- Implemented crucial bug fixes using **React.js** and **Redux**, improving Client Portal functionality
- Updated existing backend transaction flows using **Next.js** and **GraphQL**

Software Developer

Waterloo Hyperloop Team

Waterloo, ON

Dec 2019 - May 2021

- Built responsive page components using **React.js** and **TypeScript** for Waterloo's client facing website
- Redesigned and wire framed new website pages using **Figma**
- Displayed sensor data on the hyperloop pod dashboard by connecting to serial ports

Assistant Software Engineer

Crystal Claire Cosmetics Inc

Toronto, ON

May 2020 - Aug 2020

- Designed and developed robotic solutions with vision systems using **PC/PLC** control
- Lead the programming of robotic arms to reduce operational costs and increase manufacturing output

PROJECTS

Re:Action | React.js, Python, MongoDB

 Re:Action

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

Avarosa Bot | Python

 Avarosa Bot

- Programmed a web scraping Discord bot in **Python** to collect player statistics for League of Legends
- Used the **BeautifulSoup** library to parse and analyze **HTML** data from the statistics site op.gg
- Displays players' seasonal ranked statistics in the form of a Discord embed

EDUCATION

University of Waterloo

B.ASc in Computer Engineering

Waterloo, ON

Sep 2018 - Present

INTERESTS

Photography

Keyboards

Music

Esports

Basketball