

Jesse Ren

✉ jesse.ren@uwaterloo.ca 🌐 jesserren.github.io in linkedin.com/in/jesse-ren/ 🐙 jesserren

Skills

Programming: Python, JavaScript, CSS, HTML, SQL, TypeScript, Java, PHP, VBA, MatLAB

Tools/Frameworks: AWS, Django, React, React Native, Redux, PostgreSQL, MySQL, GraphQL, Angular, Git, Mercurial, Node.js, jQuery, Flowjs, Selenium, Jira, VS Code, SequelPro, Firebase, IntelliJ IDEA, PhpStorm

Employment

Meta

Frontend Engineer Intern

May 2022 to Aug. 2022

- Created an intuitive no-code tool using **React** and **GraphQL** that enables non-engineers to easily create consent prompts
- Contributed to Meta's large monorepo codebase by proficiently utilizing the **Mercurial** version control system
- Collaborated with senior engineers to determine features to prioritize or discard in an agile setting

Tulip.io

Software Engineer Intern

Sept. 2021 to Dec. 2021

- Optimized warehouse algorithms and polished the UI/UX for a multi-million dollar e-commerce company using **PHP** and **JavaScript**
- Created **JavaScript** events to gather sales data and updated google product feeds using **Python** and **SQL**
- Wrote **SQL** scripts to clean and update dirty data in company databases

Polar

Software Engineer Intern

Jan. 2021 to Apr. 2021

- Improved the user experience of an ad management platform by creating and modifying new **React** components
- Wrote unit tests in **Python** to ensure new API methods were working as intended
- Optimized relational database queries in **Django**, improving page performance by 10 seconds

TritonWear

Software Engineer Intern

May 2020 to Aug. 2020

- Built an analytics environment using **TypeScript** and **Firebase** that provided crucial user and app insights
- Created automated end-to-end test cases for **Angular** web components using **Protractor**

Economical Insurance

Access Analyst Intern

Sept. 2019 to Dec. 2019

- Developed **SQL** scripts to retrieve, update, and delete 10,000+ rows of broker data

University of Toronto Scarborough

Engineering Intern

Jan. 2019 to Apr. 2019

- Built a comprehensive data visualization tool in **Python** to display HVAC data in Time Series

Projects

PhotoBase

July 2023 to Current

- Created a photo-sharing mobile app with **React Native** and **AWS** that allows users to take and upload pictures to a cloud storage system
- Used **AWS S3** and **AWS Amplify** to build a cloud storage system that users can upload and download pictures from
- Implemented user authentication with **AWS Cognito** to only give users access to folders and images they have permission to

Leftonread

Jan. 2023 to Mar. 2023

- Built a social media app using **React Native** that aims to bridge the culture of classic literature and the modern-day high school student
- Created a **Django** REST API to return book recommendations and reviews
- Implemented a relational **PostgreSQL** database to store user and book information

Education

UNIVERSITY OF WATERLOO

B.ASc Environmental Engineering
Sept. 2018 to Apr. 2023