

Jesse Ren

Engineering Student

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Employment

Tulip.io

Software Developer

Sept. 2021 to Dec. 2021

- Optimized warehouse algorithms, polished the UI/UX, and fixed performance bugs 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 for analytics
- Made SQL migrations and relational queries to enhance page performance

Polar

Software Developer

Jan. 2021 to Apr. 2021

- Improved the user experience of an ad management platform by creating and modifying new React components
- Optimized relational database queries in Django models and views, improving page performance by 10 seconds

TritonWear

Software Engineer

May 2020 to Aug. 2020

- Built an analytics environment that provides crucial user and app insights while supporting smooth future integrations
- Wrote 20 thorough end-to-end test scripts, ensuring new and existing features functioned properly

Economical Insurance

Access Analyst

Sept. 2019 to Dec. 2019

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

University of Toronto Scarborough

Engineering Assistant

Jan. 2019 to Apr. 2019

- Implemented Python and VBA programs to format, clean, and calculate heating and cooling loads from university HVAC data files
- Built a comprehensive data visualization tool using Python to display 10 years of HVAC data in Time Series

Projects

Valineups

Apr. 2021 to Current

- Designed a web app to assist Valorant players with their gameplay
- Setup a Django REST API to return ability lineup videos
- Created a responsive UI using React that allows users to filter for specific lineups

2-D Shooter

Jan. 2020 to Feb. 2020

- Developed a game including features such as projectile motion, hit detection, and enemy movement patterns using Java
- Implemented several visual, audio, and user interactive features

Skills

Programming

- Python
- Java
- SQL
- JavaScript
- CSS
- HTML
- TypeScript
- PHP
- VBA
- MatLAB

Tools/Frameworks

- React
- Django
- Node.js
- jQuery
- Selenium
- Git
- Jira
- VS Code
- MySQL
- SequelPro
- Firebase
- PhpStorm
- Xdebug

Education

UNIVERSITY OF WATERLOO

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