

# Jesse Ren

## Engineering Student

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## Employment

### Economical Insurance

#### Access Analyst

Sept. 2019 to Dec. 2019

- Developed SQL scripts to delete, retrieve and change broker data
- Saved my team over 100 hours of work by writing a VBA script to automatically create audit reports in Excel
- Regularly participated and contributed to daily team standups, allowing for better team communication and project understanding

### University of Toronto Scarborough

#### Engineering Assistant (Facilities)

Jan. 2019 to Apr. 2019

- Developed VBA and Python scripts to format, clean and calculate heating and cooling loads from university HVAC data files
- Designed an accessible user interface that allows selection of individual heating/cooling loads within specific time ranges
- Created a comprehensive data visualization tool using Python displaying HVAC data in Time Series
- Contributed to the creation of a proposal to reduce the University's greenhouse gas emissions by modelling campus energy loads

## Projects

### Personal Website

Jan. 2020 to Mar. 2020

- Developed a flexible and mobile-friendly website using JavaScript
- Implemented several CSS and JavaScript web animations
- Utilized HTML and CSS to create an aesthetically pleasing user experience

### 2-D Shooter

Mar. 2018 to June 2018

- 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
- Coordinated and divided up tasks with team in order to achieve maximum efficiency

## Skills

### PROGRAMMING

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

### TOOLS

- Angular
- React
- jQuery
- Git
- GitHub
- Jupyter Notebook
- IntelliJ IDEA

## Education

### UNIVERSITY OF WATERLOO

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

#### Relevant

#### Coursework:

- Computational Methods
- Linear Algebra