

# Ren Jie Zheng

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## SKILLS

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**Languages:** C++/C, C#, Python, Java, JavaScript, HTML, CSS, SQL

**Technologies:** Bootstrap, React, Express, ASP.NET, Flask, MongoDB, SQLite, SQL Server, Selenium, Azure DevOps, Octopus, Linux

## EXPERIENCE

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### Junior Developer Intern - Summitt Energy

06/2022 – 08/2022

- Fixed and improved UI tests written in **Selenium** and **Robot Framework** for the company's various internal applications
- Built and maintained CI/CD pipelines using **Azure DevOps** and **Octopus** to deploy UI test scripts and set up scheduled tasks for them to run automatically
- Tested and fixed **40+ MySQL** stored procedures, which were important components of one of the companies main applications
- Initiated development of a Web Application with **ASP.NET Core** and **React**, implementing a **REST API** and front-end that can load/update data from a **SQL Server** Database

## PROJECTS

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### Ascii Game Engine:

- Designed and implemented a game engine that allows developers to create ascii art video games
- Utilized the Ncurses library for user input and display
- Employed various **OOP** design patterns (**MVC**, **Visitor**, **Strategy**, etc.) to increase flexibility and versatility, allowing the game engine to be used to create a multitude of video games

### URL Shortener Microservice:

- Created a URL Shortener Microservice using **Express** for the back-end API and **MongoDB** to store the shortened URL routes
- Implemented a front-end using **HTML** and **CSS** where users can create new shortened URLs, search for existing ones, and use the service to reroute from short URLs to their original websites

### Stock Trading Simulator:

- Created a Web Application that allows users to simulate buying and selling stocks
- Implemented a back-end with the features needed for log-in, sign-up, buy, sell, quote, and viewing transaction history using **Flask** and **SQLite**
- Made a simple front-end using **HTML**, **CSS**, and **Bootstrap**

### Personal Portfolio Website:

- Developed a personal portfolio website from scratch to showcase future projects and new skills
- Created with **HTML** and **CSS** and hosted on **GitHub Pages**

## EDUCATION

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### University of Waterloo – Waterloo ON, CA

09/2021 – 04/2026

- Candidate for Honours Bachelor of Computer Science, Co-op (Cumulative 3.7 GPA)
- Awarded President's Scholarship of Distinction
- Relevant Courses:
  - Object Oriented Software Development (Enriched) (98%)
  - Elementary Algorithm Design and Data Abstraction (93%)
  - Introduction to Combinatorics (Advanced) (87%)