

Adan Wu

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Technical Skills

- | Java | JavaScript | CSS | HTML | Python | React JS | Node JS | MongoDB | Express JS | SQL | Frontend Development | Backend Development | Database Management | Problem Solving | Critical Thinking | Leadership | Mathematics |

Work Experience

Software Developer

The Westcoast Actuaries Inc.

05/2024 - 08/2024

- Pair with a senior software developer to maintain and test an existing SQL server system.
- Improved the stability and performance of the database system, ensuring seamless operations for business-critical functions.
- Write SQL queries to extract and analyze data for business use.
- | Problem Solving | Critical Thinking | SQL | Database Management |

Education

Bachelors of Computing

Queen's University

Kingston, ON

- Major in Computer Science
- Cumulative GPA: 4.0
- Courses: Discrete Structures II, Logic for Computing science, Computer Architecture, Data Structures, Database Management Systems, Software Specifications

Projects

Full-Stack Workout Tracker | [Website](#) | [Source Code](#) |

- Designed and developed a **full-stack interactive workout tracker** that allows users to create a custom list of workouts
- Enabled users to securely create personalized workout routines while ensuring accessibility across multiple devices.
- Utilized **React JS, CSS, Node JS, Express JS, MongoDB, JSON Web Tokens (JWT)** for secure authentication, and responsive UI design to create a robust user experience.
- Also designed a **responsive UI** using React JS and CSS, ensuring the website is accessible to various devices. This project has enhanced my skills in both frontend and backend development and additionally deepened my understanding of JWT and user authentication.

OpenAI API Image Generator | [Website](#) | [Source Code](#) |

- Built an **interactive image generation** tool that allows users to upload images and generate AI-powered images of their choice.
- Improved user interaction with AI by enabling real-time image generation and API communication, enhancing both frontend and backend performance.
- Used **React JS, CSS, Node JS, Express JS, OpenAI API, and Fetch API** for asynchronous API handling and dynamic image creation.
- Utilized the **fetch API** to handle asynchronous requests to the backend. This project has enhanced my knowledge in API's and further enhanced my frontend and backend development skills.

Visual Algorithm Sorter | [Website](#) | [Source Code](#) |

- Developed an **algorithm sorter** for visualizing the execution of sorting algorithms such as Bubble Sort, Merge Sort, Insertion Sort, and more.
- Provided users with a dynamic, real-time visualization experience, making it easier to understand complex sorting algorithms.
- Used **React JS, CSS**, and a variety of sorting algorithms to build an intuitive and educational tool, while significantly improving understanding of frontend development and algorithmic logic.

Mentorship

- **Math Tutor:** Mathematics | Problem Solving | Leadership | Critical Thinking
- **Programming Tutor:** Python | Problem Solving | Leadership | Critical Thinking