

ZAIN AFZAL

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EXPERIENCE

Front-End Developer

June-August 2019

Net Zero Energy Inc. | Toronto, ON

- Developed landing page for start-up company, utilized **HTML**, **JavaScript**, **CSS**, and **React** framework for frontend to generate modern and clean UI
- Designed and created the Homepage, About us, Services, and Projects/Featured Projects pages
- Increased how much monthly projects the company gained by around 30%

Energy Modeller

January – September 2018

Advanced Building Solutions Inc. | Toronto, ON

- Performed detailed energy modelling, evaluation of complex building systems, and life-cycle-cost analysis on prestigious municipal projects, using in depth knowledge of simulation software's such as eQUEST and EE4.
- Project examples include Monaco (263 Hurontario Street), Upper Vista (7711 Green Vista Gate), East Junction (394 Symington Avenue)
- Gained strong Auto CAD and Excel skills by drawing complex zoning floorplans and performing excel take-off for different zones and heating/cooling systems for various projects

PROJECTS

Hero Index

React, Bootstrap, Superhero API, Axios, JavaScript, HTML, CSS

- Created a React app where the user can search up any hero and retrieve information on them by using Axios to fetch a json object from Superhero API containing all the results matching the query
- Implemented a responsive grid using Bootstrap to show live search results as the user types
- When user clicks on specific hero card, a modal will appear with various information about the hero such as biography, appearance, power stats, etc.

Portfolio Website

Angular, Bootstrap, JavaScript/TypeScript, HTML, CSS

- Created website to display my experiences and projects. Dynamically implemented responsive project list using Bootstrap
- Utilized various animations such as fading, sliding, and zooming in and out from AOS library
- Displayed moving net animation on landing page by implementing Vanta.js library

Street Fighter

Java/GUI

- Constructed main menu and the arcade game "Street Brawler" where user can select various maps to fight one on one
- Broadened overall Java application skills through making an interactive GUI and by using various types of animations.

Connect Four

Android Studio/Java

- Includes clean user interface and multiple animations (i.e., dropping a piece, flashing pieces to show four connected)
- Efficiently coded an algorithm to determine when the user the wins

EDUCATION

University of Waterloo | Bachelor of Applied Science in Software Engineering

Expected September 2025

- **Relevant Courses:** Programming Principles, Intro to Data Abstraction and Implementation
- **Awards:** President's Scholarship of Distinction

SKILLS

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

Other: Angular, React, SQL, Bootstrap, Node.js, Android Studio, Git, UNIX, Arduino, AutoCAD