

KARAN SAHNI

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Github.com/sahnik1

EXPERIENCE

McMaster Engineers Without Borders' — Global Engineering Conference

October 2017 - March 2018

Executive

- Created and maintained the website for the conference.
- Other roles included making promotional material such as banners, posters and logos.

PROJECTS

Clima — Lightweight Weather WebApp

October 2019

ReactJS, JavaScript, Html, CSS

- Implemented a lightweight weather application using React with Material UI Components using a REST API. Link/Source Code on GitHub.

Particle Simulation Game — Multi Platform Application

October 2019

C++, OpenGL

- 5000+ particles generated with random valued attributes such as colour, speed, size and position
- Parametric equations, vectors and other mathematical methods used to model particle movements.

CarSearch — Full Stack Application

February - May 2019

Java, React Native, MySQL, Python, Scrum

- Google Vision API used to identify cars from photographs. Large database provides key car details for that vehicle such as Recall Info, Safety Rating and Fuel Economy.
- Mobile app Front-end with React, Back-end with in Java, data organizing in MySQL, and Web API Scraping with Python Scripts.

Web Game/Website — Web Application with Resume Website

April 2018

JavaScript, Html, Css, Elm

- Developed Where's Waldo Web Game using the MVC Design Model.
- Created Personal Resume Website to host the Web Game, Links to Projects and Documentation

TECHNICAL STRENGTHS

Programming Languages

Java, C/C++, JavaScript, HTML, CSS, SQL, Python, Swift, Ruby, Haskell, Assembly (x86, MIPS)

Tools & Frameworks

ReactJS, Node.js, Git, SVN, OpenGL, Bash/Unix Shell Scripting, Linux, LaTeX, Microsoft Office

EDUCATION

Honours Computer Science — Bachelor of Applied Science

September 2018 - May 2021

McMaster University, Hamilton, Ontario

Relevant Coursework:

Data Structures and Algorithms, Object Oriented Design (Python, C++, Java, UML Diagrams), Software Development Life Cycle (SDLC and Scrum) and Requirements Documentation, Relational Databases Schema Design