

AVI PATEL

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RELEVANT EXPERIENCE

WEB DEVELOPER - FRONT END

[Waterloo Business Review](#) (WBR)

November 2019 - Present | Waterloo, ON

- Utilized **HTML**, **CSS** and Vanilla **JavaScript** to create and deploy a responsive static website for the WBR Committee as a platform for business strategy and entrepreneurial articles.
- Integrated **MailChimp** functionality for newsletter sign up and **PHP** scripts to receive form input.

PROGRAMMING CLUB EXECUTIVE

WEST HUMBER CI

September 2018 - June 2019 | Toronto, ON

- Taught students from grades nine through eleven the fundamentals of programming using **Java** and **Python**.
- Coordinated weekly meetings and lessons for the students to learn how to code efficiently and prepare them for competitions.

PROJECTS

VISUAL SORTING ALGORITHM - WEB APP

- Created a Visual Sorting Algorithm Web Application using **HTML**, **CSS**, **JavaScript** and **jQuery** with the purpose of showcasing the differences between different algorithms and how they work.
- Incorporated algorithms such as **Bubble Sort**, **Quick Sort**, **Insertion Sort**, **Merge Sort**, etc.

PATATAP CLONE - WEB APP

- Integrated **Paper.js** and **Howler.js** libraries and used **HTML** canvas' with **PaperScript** to create a fun Web Application.

NINTENDO POKEMON GAME CLONE - JAVA GUI GAME

- Integrated a Graphical User Interface (**GUI**).
- Utilized Object Oriented Programming (**OOP**), loops, and conditional statements to create basic game mechanics.
- Incorporated **File I/O** and a **Quick Sort Algorithm** for leaderboard functionality.

SPACE INVASION - UNITY GAME

- Created a 2D Retro Style Zerg Rush Game on **Unity** with **C#**.
- Incorporated **OOP**, path finding algorithms, and external libraries to have enemies search for player icon and attempt to attack it in a wave-like fashion.
- Also integrated **File I/O** to bring out leaderboard functionalities.

SKILLS

PROGRAMMING

Java • Python • Racket • JavaScript
HTML • CSS • PHP • C#

TECHNOLOGIES

Node.js • Express.js • MySQL
NPM • jQuery • Paper.js • Git
MongoDB • Howler.js • Unity
Bootstrap • MailChimp • JSON
InVision • Adobe XD • Lightroom

EDUCATION

UNIVERSITY OF WATERLOO

Candidate for Bachelor of Honours
Computer Science
September 2019 - Present

COURSEWORK

Designing Functional Programs
Elementary Algorithm Design and
Data Abstraction

AWARDS

MERIT AWARD

THE MERIT AWARD BURSARY PROGRAM
Received this award in recognition
of my commitment to academic
studies and extracurricular activities.
June 2019 | Toronto, ON

EXCELLENCE IN COMPUTER SCIENCE

WEST HUMBER CI
Received this award for receiving
the highest mark in Computer
Science in grade twelve.
June 2019 | Toronto, ON

HOBBIES

Photographer
Beginner Muay Thai Fighter
Skateboarding