

Ahmed Abbas

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EDUCATION

McMaster University

September 2020 - April 2024

Bachelor of Applied Science in Computer Science (Co-op)

Hamilton, ON

- **GPA: 3.81/4.00**, President's Entrance Award, Dean's Honour List 2021
- Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Discrete Math, Intro to Software Development, Web Programming

SKILLS

Proficient: Python, JavaScript, Java, Go, SQL, React, Bootstrap, CSS, HTML
Familiar: C, C++, Assembly, Node.js, Express, MongoDB, Redux, jQuery, PC Building
Tools: Git, Figma, Bash, Doxygen

EXPERIENCE

hEr VOLUTION

July 2021 - September 2021

JavaScript Instructor

Toronto, ON

- Delivered 2 hour long live coding sessions 5 times a week to 6 students aged 13-17, following a 6 week JavaScript, HTML, CSS and Bootstrap curriculum.
- Conducted office hours twice a week on standby to provide academic support to students.
- Reinforced students' understanding of concepts by tutoring their thought process during coaching sessions.
- Leveraged knowledge in front-end web development, JavaScript, Bootstrap, CSS, HTML, and Git.

PROJECTS

[Chat Application](#)

Node.js, Express, MongoDB, jQuery, Pug(Jade), CSS

- Developed a full-stack chat application with real-time event based client-server communication via Socket.io.
- Utilized 13 npm packages to include features such as local authentication, OAuth, password hashing, handling login sessions, and including a template engine.
- Utilized the MVC design pattern to provide two views for the model.

[Teach Me Tech -- SigmaHacks](#)

React, CSS, HTML

- Winner of best domain at SigmaHacks 3, developing a web platform to promote tech literacy in senior citizens.
- Designed mockups in Figma, and developed a minimum viable product in a team of 3, utilizing React Router.

[Sorting Algorithm Visualizer](#)

React, CSS, HTML

- Created a web-page that allows users to view animated visualizations of bubble sort, selection sort, and insertion sort. Added a slider to control the speed of animation.
- Reduced redundant code by reusing the same general functions and React Hooks across all three visualizations.

[Sudoku Game & Solver](#)

Python

- Designed and developed a UI to play Sudoku using object-oriented programming and the Pygame module.
- Implemented a feature to solve the entire board with a single key press, using a backtracking algorithm.

[PomoWatch](#)

React, CSS, HTML

- Developed a clone web-page of pomofocus.io, a pomodoro timer with timer settings and play/pause functionality.
- Utilized React Hooks for effective state and component lifecycle management.