

AHMED ABBAS

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EDUCATION

McMaster University

September 2020 - April 2024

Bachelor in Computer Science (Co-op)

Hamilton, ON

- **GPA:** 3.81/4.00, President's Entrance Award, Dean's Honour List 2021
- **Courses:** Discrete Math, Web Programming, Development Basics, Computational Thinking, Intro to Programming

SKILLS

Proficient: Python, JavaScript, React, CSS, HTML

Familiar: C, C++, Haskell, Node.js, Express, MongoDB, Redux, jQuery

Tools: Git, Figma, Bash, Linux, FileZilla, Doxygen

PROJECTS

[Teach Me Tech -- SigmaHacks](#)

June 2021

React, CSS, HTML

- Winner of best domain at SigmaHacks, creating a 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](#)

June 2021

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.

[Chat Application](#)

May 2021

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.
- Obtained knowledge of the MVC design pattern while working on the project.

[Sudoku Game & Solver](#)

May 2021

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](#)

May 2021

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.

ACTIVITIES

Competitive Programming

June 2021 - Present

Codeforces

- Achieved a rating of 803 on codeforces.com after participating in 4 competitions, using C++ and Python

Room to Read -- Toronto Chapter

January 2021 - Present

VP Outreach

- Communicated with a team of 2 other VP Outreach and 7 other executives, participating in biweekly meetings.
- Increased the Chapter's connections by networking with 24 local organizations/clubs via Instagram, Zoom, or email, and running social media collaborations or promoting each other's organizations.
- Conducted logistics for an event to prepare incoming Ontario university students, where I was a panelist.