Ahmed **Abbas**

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Education

McMaster University   📍 HAMILTON, ON
B.A.Sc in Computer Science (Co-op)   GRADUATING 2024
- Cumulative **GPA: 3.81/4.00**, President's Entrance Award, Dean's Honour List 2021
- **Relevant Coursework:** Intro to Programming, Intro to Computational Thinking, Discrete Math, Development Basics

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

Sorting Algorithm Visualizer   ⌘ WEBSITE | ⊙ GITHUB
React, CSS, HTML   JUNE 2021
- Created a web-page that allows users to view animated visualizations of **bubble sort, selection sort, and insertion sort**.
- Reduced code clutter by reusing the same general functions and React Hooks across all three visualizations.

Chat Application   ⌘ WEBSITE | ⊙ GITHUB
Node.js, Express, MongoDB, jQuery, Pug(Jade), CSS   MAY 2021
- Developed a full-stack chat application with real-time event based communication between the client and server via Socket.io.
- Utilized 13 npm packages to include features such as local authentication, OAuth, password hashing, and handling login sessions.
- Obtained knowledge of the **MVC design pattern** during the project.

Sudoku Game & Solver   ⊙ GITHUB
Python   MAY 2021
- 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   ⌘ WEBSITE | ⊙ GITHUB
React, CSS, HTML   MAY 2021
- Developed a clone web-page of ⌘Pomofocus.io, a pomodoro timer with adjustable timer settings and play/pause functionality.
- Utilized React Hooks for effective state and component lifecycle management.

Activities

Competitive Programming   📍 REMOTE
Codeforces   JUNE 2021 - PRESENT
- Achieved a rating of 585 on ⌘Codeforces.com after participating in 2 competitions and counting, using C++ and Python

Room to Read – Toronto Chapter   📍 GREATER TORONTO AREA, ON
VP Outreach   JAN. 2021 - PRESENT
- Worked 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.
- Helped conduct organization and logistics for an event to prepare incoming Ontario university students, where I was a panelist.

Google Developer Student Clubs – McMaster U   📍 HAMILTON, ON
External Relations Team   OCT. 2020
- Created a marketing plan for the Incubator, a month long event to help participants prepare for the Google Solutions Challenge.