## AHMED ABBAS

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#### **EDUCATION**

## McMaster University

September 2020 - Present

### **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
- 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** (<u>devpost.com/software/teach-me-tech</u>) *React, CSS, HTML*

June 2021

- 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** (<u>sort-visual.netlify.app</u>) *React, CSS, HTML*

June 2021

- 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 (ahmeds-chat-app.herokuapp.com)

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 (pomowatch.netlify.app)

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.