

# Ahmed Abbas

905-466-6752 | [ahmedabb101@gmail.com](mailto:ahmedabb101@gmail.com) | [linkedin.com/in/ahmedabbascs](https://linkedin.com/in/ahmedabbascs) | [github.com/ahmedabb104](https://github.com/ahmedabb104) | [ahmedabbas.me](https://ahmedabbas.me)

## EDUCATION

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### McMaster University

September 2020 – April 2024

*Bachelor of Applied Science in Computer Science*

*Hamilton, ON*

- GPA: 3.8/4.0
- Relevant Courses: Data Structures & Algorithms, Databases, Concurrency, Discrete Math, Computer Architecture

## EXPERIENCE

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### JavaScript Instructor

July 2021 – September 2021

*hEr VOLUTION*

*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
- Participated in weekly meetings with the other instructors to synchronize our teaching pace and organize/share additional teaching materials
- Conducted office hours twice a week on standby to provide academic support to students, reinforcing their understanding of concepts via one on one tutoring
- Leveraged knowledge in front-end web development, JavaScript, Bootstrap, CSS, HTML, and Git

## PROJECTS

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### Chat Application | *Node.js, Express, MongoDB, Socket.io, Pug(Jade), CSS*

June 2021

- Developed a full-stack chat application with real-time event based client-server communication via Socket.io
- Implemented features such as local authentication, Github OAuth, password hashing, and handling login sessions by using several npm packages
- Incorporated a MongoDB Atlas cluster to store usernames, hashed passwords, and time of account creation
- Utilized the MVC design pattern to provide two views for the model

### Sorting Algorithm Visualizer | *React, Material UI, CSS*

June 2021

- Created a web-page for viewing animated visualizations of bubble sort, selection sort, and insertion sort
- Integrated a Material UI slider to control the speed of animation
- Leveraged React Hooks to reduce redundant code, cutting down the size of the code base by 30%

### Sudoku Game & Solver | *Python, Pygame*

May 2021

- Designed and developed a UI to play Sudoku using object-oriented programming and the Pygame module
- Used a backtracking algorithm to solve the entire board with a single key press
- Unit tested and debugged the backtracking algorithm across 100 unique inputs using unittest

### SigmaHacks 3 – Teach Me Tech | *React, CSS*

May 2021

- Winner of best domain at SigmaHacks 3, developing a web platform to promote tech literacy in senior citizens
- Designed mockups in Figma, and developed an MVP using React Router within 8 hours in a team of 3

### Pomodoro Timer | *React, CSS*

May 2021

- Developed a pomodoro timer with customizable settings and play/pause functionality
- Incorporated React Hooks for effective state and component lifecycle management

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, Java, C, SQL, HTML/CSS

**Technologies:** React.js, Node.js, Express, Redux, DB2, MongoDB, Bootstrap

**Tools:** Git/Version Control, Figma, Bash, Unix