Mohamed Y Manssour

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EDUCATION

York University | *Toronto, ON*   *Expected Graduation,* **May 2027**

- Faculty of Liberal Arts and Professional Studies, B.A., Hons. Information Technology (ITEC)
- 3.8/4.0 cGPA

Relevant Coursework

- Intro. to Data Structures, Object-Based Programming, Scripting Languages, Object-Oriented Programming, Web Technologies, Database: SQL, Systems Architecture, Programming Mobile Applications, and Graphic Techniques for Software Design

Highlights Of Qualifications

- Developed a variety of software projects through the phases of the SDLC using OOP methodology and UML
- Created sophisticated, standard-compliant code in ASP.Net, C#, Python, JavaScript, HTML5, CSS3 and SQL
- Employed MVC architecture to develop layered software solutions, resulting in improved user engagement

EXPERIENCE

Full-stack Software Dev Intern | *MDR Associates - Factory Resource*   **May. 2023 – August. 2023**

- Cleared numerous front-end bugs using **Next.js**, **Styled Components**, and our **internal component library**, significantly enhancing the user experience for over **9 million monthly visitors**
- Operated on **mobile-responsive web design** and optimized the codebase, leading to more **efficient system runtimes**
- Maintained and updated web pages, ensuring optimal **functionality**, **security**, and alignment with the **latest web standards**

IT Consultant | *Sherbourne Health, Wellesley Community Centre*   **Mar. 2022 – Jul. 2022**

- Offered **technical** and **user support**, and efficiently **managed inventory** for staff at a COVID-19 vaccination clinic.
- Efficiently **uploaded and transformed client data** into **COVaxon**, enabling over **500 daily dose administrations**.
- Developed **automated Excel templates** to streamline **data conversion** and addressed various **technical challenges**, including Wi-Fi, printer issues, and user troubleshooting on **Verto** and **COVaxon** platforms.

PROJECTS

Automated Plant Watering System | *Arduino, Java*

- Designed and implemented an **automated plant hydration system**, utilizing Arduino microcontrollers and **Java programming**, which effectively **increased crop yield by 30%** and **reduced water consumption by 40%.**
- Integrated **remote monitoring** and **control capabilities**, allowing for **real-time modifications** to irrigation schedules.

Chess Game Vs AI | *JavaScript, HTML, CSS*

- Constructed a **basic-level chess AI** employing a function for **random legal moves**, and **intermediate and advanced levels** using the **minimax algorithm** with a **recursive function** for exploring and evaluating moves at various depths
- Developed a **dynamic game system** that effortlessly transitions between **three modes**
- Designed a **Chess Challenge Mode** with **adaptive puzzle scenarios**, utilizing a **custom puzzle engine** for **dynamic difficulty adjustment** and a **responsive UI**

Interactive Portfolio Website | *React.Js, Vue, JavaScript, HTML, CSS*

- **Operated React.Js** to create a responsive and interactive **user interface**.
- Utilized **state management** and **component-based architecture** to dynamically display portfolio projects and testimonials
- Implemented **Vue.js** for **interactive features**, including **animated progress bars and galleries** showcasing work samples
- Structured the website's **SEO performance** by using **HTML5** semantic elements, such as header, section, and footer tags, to create a well-organized and easily **indexable content structure** for search engines.

Whack-A Error (Whack-A Mole Clone) | *JavaScript, HTML, CSS*

- Utilized **'confirm'** and **'prompt'** dialogues to offer players the option to enter their scores into a **leaderboard**. Managed **score storage** and display using **JavaScript's local storage** and **DOM manipulation**
- Administered a script for **real-time scoring**, incrementing **'score'** for each successful player **'whack'**

TECHNICAL SKILLS

Languages: Java, Python, C#, JavaScript, HTML5, CSS3, SCSS, SQL, VBA
Frameworks: React.js, Node.js, jQuery, Express.js, Angular, ASP.NET, MVC, Bootstrap
Tools: Git, GitHub, MongoDB, MySQL, Microsoft Access