

Hazem Alsagheer

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EDUCATION

Bachelor of Engineering in Computer Engineering

September 2020 – April 2025

Toronto Metropolitan University (formerly Ryerson University).

Toronto, ON

- **CGPA:** 4.02 / 4.33.
- **Awards:** Dean's List | 2020 – 2021, Dean's List | 2021 – 2022, and Dean's List | 2022 – 2023.
- **Relevant Courses:** Software Design and Architecture, Operating Systems, Database Systems, Data Structures and Algorithms, Object-Oriented Analysis and Design, Computer Vision, and Computer Networks.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, VBA, SQL, C, HTML, and CSS.
- **Frameworks and Libraries:** Pandas.py, Regex.py, Node.js, React.js, and Tailwind.css.

WORK EXPERIENCE

IT Operations

May 2023 – August 2024

Hydro One Networks Inc.

Toronto, ON

- Developed an audit solution using **Python** and **SQL**, resolving discrepancies between SAP and PCMIS, preventing **\$1 million/day** in potential fines from NERC.
- Collaborated with internal teams to resolve external data quality issues using VBA, achieving the **first 66% improvement in data accuracy** and reducing processing errors.
- Developed a solution to classify condensed long text entries into clear categories using **Regex** and **Pandas Python libraries**.
- Extracted several custom queries from PCMIS database for internal teams using **Microsoft SQL** allowing feasibility in their personal analysis.
- Optimized monthly audits using **VBA** in Excel, improving accuracy and speed.
- Led and mentored new co-op students, enhancing their understanding of the PCMIS system while improving my leadership, feedback, and support skills.

Software Front End Developer

June 2022 – August 2022

Mara Technologies

Markham, ON

- Developed and designed a navigation website for a newly installed internal kiosk machine using **CSS and HTML**, enabling over **50 employees** to navigate and explore company information.
- Utilized the **Agile development methodology** to carefully plan, design, develop, and test the website while maintaining scalability and modifiability.
- Implemented core UI/UX principles to create an intuitive and visually appealing web application that allowed for user's ease of usage while integrating the companies theme and values.
- Developed an algorithm to help build an interactive calendar, including all the important dates of the company using **JavaScript**.
- Collaborated with various team members to develop an online portal that would help workers with a language barrier to access the company's policies in their native languages.

PROJECT EXPERIENCE

Tic Tac Toe | Python

- Developed a console-based Tic Tac Toe game utilizing **object-oriented programming in Python** and the **minimax algorithm with alpha-beta pruning**, allowing optimal move calculation against the player.
- Designed an interactive command-line interface enabling smooth player interaction.

Weather App | React.js, Tailwind.css

- Built a weather app that provides **real-time weather updates** with daily and hourly forecasts using a weather API.
- Created a **responsive and user-friendly interface** optimized for multiple devices.
- Managed both front-end and back-end development, ensuring seamless data fetching and error handling.