

# Maher Muhtadi

Profiles: [linkedin.com/in/maher-m](https://www.linkedin.com/in/maher-m) | [github.com/MaherMuhtadi](https://github.com/MaherMuhtadi) | [maher-m.com](https://maher-m.com)

## EDUCATION

<b>Bachelor of Science, Computer Science</b> <i>Toronto Metropolitan University (formerly Ryerson), Canada</i>	Undergraduate <i>September 2020 – December 2023</i>
<ul style="list-style-type: none"><li>• Scored a cumulative GPA of 3.92 out of 4.33</li><li>• Earned a place on the Faculty of Science Dean's List every year since 2021</li></ul>	
<b>General Certificate of Education, A-Level</b> <i>Bangladesh International School, Saudi Arabia</i>	High School <i>June 2020</i>
<b>International General Certificate of Secondary Education, O-Level</b> <i>Bangladesh International School, Saudi Arabia</i>	High School <i>June 2018</i>

## CERTIFICATIONS

<b>Security Guard Licence</b> <i>Private Security and Investigative Services, Ontario</i>	<i>March 2022 - October 2023</i>
<b>Emergency First Aid, CPR, and AED Level C Certification</b> <i>The Academy for First Aid and Safety Training</i>	<i>October 2021 - October 2024</i>

## SKILLS

- Knowledgeable in fields such as AI, Machine Learning, Full-Stack Web Development and Data Management
- Proficient in many programming languages such as Python, Java, C, JavaScript, TypeScript, Perl, PHP, ASP, Ruby, ECLIPSE Prolog, Elixir, Haskell, Bash, Pharo Smalltalk, Visual Basic and Common Lisp
- Experienced in web frameworks such as React, Svelte, AngularJS, Vue, Django, JQuery and Bootstrap
- Skilled in Data Science libraries such as Scikit-Learn, Imbalanced-Learn, Pandas, NumPy, Matplotlib and Seaborn
- Adept at other languages such as SQL, HTML, CSS, SVG, XML, JSON and Markdown
- Familiar with common tools such as Vim, Git, GitHub, Visual Studio, VSCode, Docker, MySQL and VMs

## RELEVANT EXPERIENCES

[MORE ON LINKEDIN](#)

<b>Inclusive Media Design Centre WebMoti Developer</b> <i>Toronto Metropolitan University, Canada</i>	Part-Time <i>September 2023 - Present</i>
<ul style="list-style-type: none"><li>• Building and upgrading hardware components of WebMoti system's Raspberry Pi robot enabling physical presence of neuro-diverse students joining in-person classes remotely</li><li>• Developing a React JS video conferencing web app using Twilio API to facilitate hybrid classrooms</li><li>• Configuring firewalls, permissions and ports of the robot to securely connect to the web app using Remote.It</li><li>• Integrating the robot's remote control interface into the web app allowing physical classroom interactions such as hand raising via the robot</li><li>• Conducting formative and summative usability tests on the web app to expose bugs and ensure intuitive design and accessible user experience for both students and instructor</li></ul>	
<b>Python Instructor</b> <i>Kodland, UK</i>	Part-Time <i>October 2021 – October 2022</i>
<ul style="list-style-type: none"><li>• Instructed over 150 students of varying skill levels in Python programming language with a 100% passing rate</li><li>• Delivered lessons in digestible format based on the skill level of the students</li><li>• Evaluated student projects through code reviewing and debugging in a timely and effective manner</li><li>• Analyzed students' data structures and algorithms to provide detailed feedback for optimizing code performance</li><li>• Performed troubleshooting for virtual meetings and the Kodland IDE to ensure the smooth delivery of lessons</li><li>• Engaged parents in discussions regarding performance feedback on their children and their concerns</li></ul>	

**Student Learning Center Senior Specialist**

Part-Time

*Toronto Metropolitan University, Canada**August 2023 - Present*

- Received Employee of the Month in September 2023 for embodying curiosity and dedication, enriching team dynamics and demonstrating crisis management in the workplace
- Pitched a financially feasible solution that won the Student Life and Learning Support - Divine Design Thinking hackathon addressing the lack of campus resource awareness among students
- Produced a short series, played at Staff Winter Gathering, by directing the scripting, casting, filming and editing
- Leading informative tours of the Student Learning Center to stakeholders and prospective or incoming students
- Training new recruits by imparting knowledge and expertise to ensure proper conduct of responsibilities

**Student Learning Center Specialist**

Part-Time

*Toronto Metropolitan University, Canada**January 2023 - August 2023*

- Ensuring customer satisfaction by asking guided questions to identify the needs of patrons and addressing them
- Assisting with preparation, setup and tear down of events including the tracking of equipment lent out
- Roaming the building to establish staff presence and ensure all building etiquette and regulations are respected
- Monitoring and reporting security or maintenance issues on work site and minimizing any risk to the community
- Collecting and maintaining statistical data relevant in making critical operational decisions

**Concierge and Security Guard**

Part-Time

*The Forest Hill Group, Canada**September 2022 – February 2023*

- Conducted thorough patrols of the premises to maintain the safety and security of the residents
- Enforced access control throughout the site by securing all access points and granting entry to authorised people
- Responded promptly to emergency situations and adhered to established protocols to ensure the safety of residents
- Summarised daily activities during shifts and wrote detailed special occurrence reports following security incidents
- Reviewed pass-on logs and important announcements to carefully plan and prioritize tasks
- Logged all incoming parcels and released to recipients after verifying their identities

**Chat App***React, TypeScript, JavaScript, HTML, CSS*

- Enabled real-time, bidirectional and low-latency messaging between multiple users using Socket.IO
- Improved app performance by routing reusable React JS components into a Single Page Application
- Developed a robust and scalable back-end server architecture using Node.js and Express
- Designed responsive and mobile-friendly components using flexboxes and media queries
- Utilized Cloudflare's CDN, caching, DDoS protection and SSL/TLS certificates for high performance and security
- Deployed app with CapRover and hosted publicly on an Ubuntu system using Oracle Cloud Server

**Natural Language Query Processor***ECLiPSE Prolog*

- Parsed noun phrase queries, about a hypothetical chain of electronics stores, through a linguistic NLU system
- Built the database using atomic propositions in a Prolog knowledge base
- Leveraged Prolog back-chaining for results retrieval from knowledge base using grammar and lexicon rules

**Online Shopping and Delivery Web Application***PHP, JavaScript, SQL, CSS*

- Designed database in a Boyce-Codd Normal Form relation schema and implemented using MySQLi
- Created dynamic webpages through back-end PHP scripts, JQuery and JavaScript HTML DOM manipulation
- Integrated asynchronous connection to Google Maps Platform APIs for generating and displaying delivery routes
- Enforced app security by validating form submissions, using domain restricted API keys, storing salt encoded MD5 hashing or aes-256-cbc encryption of sensitive information, requiring user authentication and authorization etc

**Routing Algorithms Visualizer***JavaScript, HTML, CSS*

- Implemented network building and rendering on browser with a custom graph class and Cytoscape.js library
- Applied Dijkstra's and Bellman-Ford Algorithms to calculate shortest paths for routing between network devices
- Enhanced GUI performance with asynchronous event callbacks using JavaScript Event-Driven programming

**Snake Game***Python*

- Abstracted the PyGame library using custom [framework](#) for handling game entities and events
- Developed game logic to be scalable following modern software engineering standards