

Maher Muhtadi

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EDUCATION

Bachelor of Science, Computer Science <i>Toronto Metropolitan University (formerly Ryerson), Canada</i>	Undergraduate <i>September 2020 – December 2023</i>
<ul style="list-style-type: none">Scored a cumulative GPA of 3.95 out of 4.33Earned a place on the Faculty of Science Dean's List every year since 2021	
General Certificate of Education, A-Level <i>Bangladesh International School, Saudi Arabia</i>	High School <i>June 2020</i>
International General Certificate of Secondary Education, O-Level <i>Bangladesh International School, Saudi Arabia</i>	High School <i>June 2018</i>

CERTIFICATIONS

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

SKILLS

Programming Languages: Python, Java, C, JavaScript, TypeScript, Perl, PHP, ASP, Ruby, ECLiPSE Prolog, Elixir, Haskell, Bash, Pharo Smalltalk, Visual Basic, Common Lisp
Other Languages: SQL, HTML, CSS, SVG, XML, JSON, Markdown
Web Frameworks: React, Svelte, AngularJS, Vue, Django, JQuery, Bootstrap
Tools: Vim, Git, GitHub, Visual Studio, VSCode, Docker, MySQL, VirtualBox/VMWare
Interests: AI and Machine Learning, Full-Stack Web Development, Game Development

RELEVANT EXPERIENCES

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Inclusive Media Design Centre WebMoti Developer <i>Toronto Metropolitan University, Canada</i>	Part-Time <i>September 2023 - Present</i>
<ul style="list-style-type: none">Building and upgrading components for the WebMoti system's Raspberry Pi robot stand-in for neuro-diverse students joining classes remotelyDeveloping a React JS video conferencing web app using Twilio API for real-time virtual connection between remote students and in-person classroomIntegrating remote control interface for the robot into the web app enabling physical classroom interactions via the robot, such as hand raisingConducting formative and summative usability tests on the web app to expose bugs and ensure intuitive design and accessible user experience for both students and instructorCollaborating with development team using GitHub and Git version control systems for seamless code integrationResearching technology, software and libraries to continuously evolve the WebMoti system	
Python Instructor <i>Kodland, UK</i>	Part-Time <i>October 2021 – October 2022</i>
<ul style="list-style-type: none">Instructed over 150 students of varying skill levels in Python programming language with a 100% passing rateDelivered lessons in digestible format based on the skill level of the studentsEvaluated student projects through code reviewing and debugging in a timely and effective mannerAnalyzed students' data structures and algorithms to provide detailed feedback for optimizing code performancePerformed troubleshooting for virtual meetings and the Kodland IDE to ensure the smooth delivery of lessonsEngaged parents in discussions regarding performance feedback on their children and their concerns	

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