

Maher Muhtadi

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

SKILLS

Programming Languages:	Python, Java, C, Javascript, Perl, PHP, ASP, Ruby, ECLiPSE Prolog, Elixir, Haskell, Bash, Pharo Smalltalk, Common Lisp
Other Languages:	SQL, HTML, CSS, SVG, XML, JSON, Markdown
Web Frameworks:	AngularJS, React, Vue, Django, JQuery, Bootstrap
Tools:	Windows, Linux, Vim, SSH, Git, GitHub, Fossil, Visual Studio Code, ECLiPSE, Docker, MySQL, Oracle SQL Developer, XAMPP, VirtualBox/VMWare, Slack/Slack-Apps
Interests:	Full-Stack Web Development, Artificial Intelligence, Game Development

EDUCATION

Bachelor of Science, Computer Science <i>Toronto Metropolitan University (formerly Ryerson), Canada</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	4th Year, Undergraduate <i>September 2020 – Present</i>
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>

PROJECTS

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Natural Language Query Processor <ul style="list-style-type: none">Parsed noun phrase queries, about a hypothetical chain of electronics stores, through a linguistic NLU systemBuilt the database using atomic propositions in a Prolog knowledge baseLeveraged Prolog back-chaining for results retrieval from knowledge base using grammar and lexicon rules	<i>ECLiPSE Prolog</i>
Online Shopping and Delivery Web Application <ul style="list-style-type: none">Designed database in a Boyce-Codd Normal Form relation schema and implemented using MySQLiCreated dynamic webpages through back-end PHP scripts, JQuery and JavaScript HTML DOM manipulationIntegrated asynchronous connection to Google Maps Platform APIs for generating and displaying delivery routesEnforced app security through validating form submissions, using domain restricted API keys, storing salt encoded MD5 hashing or aes-256-cbc encryption of sensitive information, restricting privileges to admin accounts	<i>PHP, JavaScript, SQL, CSS</i>
Routing Algorithms Visualizer <ul style="list-style-type: none">Implemented network building and rendering on browser with a custom graph class and Cytoscape.js libraryApplied Dijkstra's and Bellman-Ford Algorithms to calculate shortest paths for routing between network devicesEnhanced GUI performance with asynchronous event callbacks using JavaScript Event-Driven programming	<i>JavaScript, HTML, CSS</i>
Personal Portfolio Website <ul style="list-style-type: none">Implemented interactive elements and colour theme toggling using CSS and JavaScript HTML DOM manipulationDesigned responsive and mobile-friendly webpages using flexboxes, media queries and BootstrapUtilized Cloudflare's CDN, caching, DDoS protection and SSL/TLS certificates for high performance and securityDeployed website with CapRover and hosted publicly on an Ubuntu system using Oracle Cloud Server	<i>HTML, CSS, JavaScript</i>
Snake Game <ul style="list-style-type: none">Abstracted the PyGame library using custom framework for handling game entities and eventsDeveloped game logic to be scalable following modern software engineering standards	<i>Python</i>

EXPERIENCE

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Python Instructor <i>Kodland, UK</i> <ul style="list-style-type: none">Instructed over 150 students of varying skill levels in Python programming language with a 100% passing rateEvaluated student projects through code reviewing and debugging in a timely and effective mannerAnalyzed students' algorithms and provided structured feedback for optimizing code performancePerformed troubleshooting for virtual meetings and the Kodland IDE to ensure the smooth delivery of lessons	Part-Time <i>December 2021 – October 2022</i>
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