

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 4th Year, Undergraduate
Toronto Metropolitan University (formerly Ryerson), Canada September 2020 – Present

- Scored a cumulative GPA of 3.95 out of 4.33
- Earned a place on the Faculty of Science Dean's List every year since 2021

General Certificate of Education, A-Level High School
Bangladesh International School, Saudi Arabia June 2020

International General Certificate of Secondary Education, O-Level High School
Bangladesh International School, Saudi Arabia June 2018

PROJECTS

[MORE ON GITHUB](#)

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 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

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

Personal Portfolio Website *HTML, CSS, JavaScript*

- Implemented interactive elements and colour theme toggling using CSS and JavaScript HTML DOM manipulation
- Designed responsive and mobile-friendly webpages using flexboxes, media queries and Bootstrap
- Utilized Cloudflare's CDN, caching, DDoS protection and SSL/TLS certificates for high performance and security
- Deployed website with CapRover and hosted publicly on an Ubuntu system using Oracle Cloud Server

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

EXPERIENCES

Student Learning Center Specialist

Part-Time

Toronto Metropolitan University, Canada

January 2023 - Present

- Ensuring customer satisfaction by asking guided questions to identify the needs of patrons and addressing them
- Leading informative tours of the Student Learning Center building
- Assisting with preparation, setup and tear down of amphitheatre events
- 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

Python Instructor

Part-Time

Kodland, UK

October 2021 – October 2022

- Instructed over 150 students of varying skill levels in Python programming language with a 100% passing rate
- Delivered lessons in digestible format based on the skill level of the students
- Evaluated student projects through code reviewing and debugging in a timely and effective manner
- Analyzed students' algorithms and provided structured feedback for optimizing code performance
- Performed troubleshooting for virtual meetings and the Kodland IDE to ensure the smooth delivery of lessons
- Engaged parents in discussions regarding performance feedback on their children and their concerns