Maher Muhtadi

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SKILLS

Python, Java, C, Javascript, Perl, PHP, ASP, Ruby, ECLiPSE Prolog, Elixir, Haskell, Programming Languages:

Bash, Pharo Smalltalk, Common Lisp

SQL, HTML, CSS, SVG, XML, JSON, Markdown Other Languages: Web Frameworks: AngularJS, React, Vue, Django, JQuery, Bootstrap

Windows, Linux, Vim. SSH, Git, GitHub, Fossil, Visual Studio Code, ECLiPSE, Docker, Tools:

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

Banqladesh International School, Saudi Arabia

June 2020

International General Certificate of Secondary Education, O-Level

High School

Bangladesh International School, Saudi Arabia

June 2018

Projects

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

Experience

Python Instructor

Part-Time

December 2021 - October 2022

- Kodland, UK • Instructed over 150 students of varying skill levels in Python programming language with a 100% passing rate
 - 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