AMR HASSAN

Computer Engineering CO-OP

Projects

Crypto Web Scraper　　　　　　　　　　Sept - Dec 2023
Personal Project

- Designed and implemented a robust Crypto Web Scraper application using **Python** to fetch realt-time cryptocurrency prices from CoinMarkCap.
- Integrated automated data retrieval and updating functionalities with **Google Sheets** for tracking cryptocurrency prices.
- Implemented comprehensive **error detection and handling mechanisms.**

SVG Image Viewer　　　　　　　　　　Jan - April 2022
Software System Dvlmt & Intgrn (CIS*2750)

- Developed an image viewer web GUI using **HTML + JavaScript with jQuery library + CSS**
- The GUI allowed the user view, edit, and save SVG images to the school server.
- Used the **node.js, FFI-napi,** to translate between **C and JavaScript** strings.
- This resulted in an overall grade of **100%** on the project.

CPU Simulation　　　　　　　　　　Jan - April 2022
Operating Systems (CIS *3110)

- Used **C** to develop 2 CPU scheduling algorithms **(FCFS, and RR)**. that executed a group of multi-threaded processes
- Used a doubly linked list to store process/thread information and a priority queue to arrange each process by their arrival time.
- This resulted in an overall grade of **94%** on the project.

Work Experience

Co-op Student Software Developer　　　Sept - Dec 2022
Bastian Solutions

- Assisted a senior developer in building an industrial communication client (OPC-UA) using **C#.**
- Implemented C# best practices and design patterns to ensure efficient and maintainable code.
- Developed **unit and integration tests** to test with OPC client.
- Collaborated in team of five to peer review solution design and related code.
- Researched and wrote detailed documentation within **Microsoft Azure's** collaborative platform, illuminating the functionalities and applications of **ROS (Robot Operating System)**.

CONTACT

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SKILLS

C	4 years
GIT	2 years
C#	1 year
Java	1 year
Python	1 year
JavaScript	1 year
SQL	1 year
HTML	1 year
CSS	1 year

EDUCATION

Bachelor of Engineering

University of Guelph

2018 - 2024