

Maram Elsayed

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Skills

Languages: C, C++, C#, Java, JavaScript, Python, Pascal, SQL, HTML, CSS, MIPS.

Tools & Frameworks: Git, Django, Flask, REST APIs, JUnit, Java GUI, MySQL Workbench, Selenium, Hadoop MapReduce, Docker, Apache Spark, Jupyter, GNS3, JetBrains, Blazor.

Education

Bachelor of Science in Software Engineering, with Distinction Sep 2018 - May 2023
Schulich School of Engineering, University of Calgary

Dean's List 2021-2022, 2022-2023

Relevant Coursework: OOD, TDD, Data Structures, Operating Systems, Embedded Systems, Software Architecture, Computer Networks, Database, Software Testing, Big Data, Information Visualization, Data Science, Human-Computer Interaction, Biometrics Systems, Software Performance Evaluation.

Projects

TELUS Adaptive Bandwidth Throttling in Radio Access Networks – Capstone Industry-Sponsored Project Sep 2022 – May 2023

Python, GNS3, CentOS (Linux), Flask, Git.

- Developed an adaptive bandwidth throttling (ABT) framework in a team of 6.
- Created a Network Simulation Model of the ABT framework using GNS3 and Virtual Ubuntu Desktops.
- Designed a Core Network and RAN Utilization Monitoring Solution to throttle at a specified capacity based on clients' service grade.

Library System – Course Project Jan 2023 – May 2023

C#, HTML, CSS, ASP.NET, Blazor.

- Designed the User Interface (UI) of a Library System in a group of 5.
- Practiced Human-Computer Interaction methods to improve customers' experience.
- Proficiently contributed to the front-end development of a dynamic web application.

Geolocation of Twitter Users Using Natural Language Processing and Machine Learning – Course Project Oct 2022 – Dec 2022

Python, Jupyter, Git.

- Built 3 Naïve Bayes models based on different textual features models to predict User's Geolocation based on User's 'Tweets'.
- Reported accuracies of 79%, 70%, and 67%.
- Carried out EDA and pre-processed the data to comprehend the Dataset's trends.

Note Goat – Course Project Web App Jan 2022 – Apr 2022

Django, Python, HTML, CSS, SQL, REST-ful API, Selenium, Git.

- Developed a Notes Web Application with an MVC Software Architecture.
- Practiced back-end development, and Selenium Automation Testing.
- Utilised sqlite3 to store data.

Extracurricular Experience

Mentor for MINDCRAFT – Carnegie Mellon University in Qatar Dec 2017

- Helped develop leadership and communication skills throughout the event.
- Guided students participating from various schools.