Mostafa Hamed

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EDUCATION

Bachelor of Computer Science Major (Co-op option)   Winter 2020 – Present

University of Manitoba

Relevant courses: Data Structure and Algorithms, Database I, Object Oriented Programming, Human Computer Interaction, Computer Graphics, Analysis of Algorithms, Database Implementation, Data Mining.

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript, Python, Dart, HTML, CSS, SQL, Processing, Assembly, Markdown.
Software/Frameworks: VS Code, Android Studio, IntelliJ, Flutter.
Tools: Git, Swagger.io, NodeJS, WinSCP.

PERSONAL PROJECTS

Online Jewelry App   *Google Flutter, Dart, stored procedures (DB), Git*

Developed an e-commerce application using Dart for purchasing jewelry online. The app allows users to view and browse through the store's collections in real time. Some of the features of the app include:

- Adding items to the shopping cart and tracking liked items which were synced with the store's database.
- Viewing product details and specifications.
- Searching for specific items using keywords.
- Filtering and browsing through items in the store using the database.

Course Tracker App ⧉   *Google Flutter, Dart, Git, Sqflite*

Developed an app using dart to help students track course grades and to set a target with the use of a database to store and update user's changes. Some of the features of the app include:

- Manage courses and assessments, including adding, viewing, editing, and deleting.
- Viewing the current grade for a course and setting a target grade.
- Calculating the percentage of the grades the user has achieved so far.
- Determining the percentage needed on future assessments to achieve the target grade.

Automated Course Registration ⧉   *Python, Selenium*

Developed a script using Selenium to automate the process of enrolling in courses at the University of Manitoba
- Implemented web scraping techniques to extract and input data into the registration form.

Spotify Playlist Analyser   *Java, SQLite*

Developed a program in Java that analyzed Spotify playlists that were connected to a database of playlists using SQL queries.
- Used the data to determine the most listened to artists and genres in all playlists.
- Identified all songs that included a certain genre in all playlists.

WORK EXPERIENCE

Grader/Marker Introductory Computer Science I | University of Manitoba   *January 2023 – Present*

- Grade work submitted by students from tests, exams, and assignments.
- Provide written feedback to the students on the quality of the material presented for grading.

Overnight Stocker | Real Canadian Superstore   *Dec 2021 – June 2022*

Winnipeg, MB

- Assisted in the management and organization of overnight inventory at retail location, including monitoring and replenishing stock levels.
- Collaborated with team members and arranged pallet deliveries efficiently.

Sales Associate | Solitaire Jewelry   *Jan 2017 – Aug 2019*

- Provided excellent customer service and ensured the customer needs and preferences were fully met.
- Managed the store's social media, including posting products and responding to customer inquiries.

GROUP PROJECTS

Inventory Management System ⌷   *Android Studio , Java, HSQLDB, Git*

Developed an Inventory Management System app using Agile development that allows the user to customize and manage their own inventory.

- Worked with a team of 5 on all aspects of the project.

  Some of the features of the app include:

- Creating custom Categories/Locations while saving it in the DB.
- Creating items of a specific type, Category and location and increase or decrease the quantity.
- Keeping track of items that need to be restocked.
- Filtering and searching through the items in the inventory.

Video Game Database Interface ⌷   *Java ,SQL(DataGrip), Git*

Used raw data sets to design a database schema, normalize it and create a video games database with a GUI that has a drop-down menu with all the available queries to run.

- Worked with a 4-Person team.
- Came up with interesting queries to add to the project such as:
  – Find the games, publisher names and developer names of the game which has the lowest average player base across all regions.
- Interactive GUI that shows the result of the selected query and has the option of outputting the query results to a CSV file.
- Includes a table query option that shows all the available tables and shows one or more of the selected table's attributes.

VOLUNTEER

Resala Charity Organization   *Jan 2018*

- Assisted in the collection and sorting of recycled clothing, shoes, and damaged textiles for donation.
- Helped to coordinate and execute the actual donation process.