Yousam Asham

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EDUCATION

MCMASTER UNIVERSITY | B.Eng.BME Software Engineering
Expected Apr 2022 | Hamilton, ON • Cum. GPA: 3.85 / 4.0
Course highlights: Software Development (A+), Discrete Mathematics and Applications (A+), Data Structures and Algorithms (A+), Software Design (A), Principles of Programming (A-).

EXPERIENCE

MCMASTER UNIVERSITY | Integrated Cornerstone Design Projects Teaching Assistant
September 2020 – Current | Remote (Online)

- Working with students and providing assistance with coding, computer aided design, and project management.
- Marking and grading tasks submitted by students.
- Attended weekly meetings and collaborated with instruction assistant interns to deliver the course to students online.

LLETTONNA | iOS Application Developer
May 2020 – August 2020 | Hamilton, ON

- Working with Swift to develop the MomsInMind application.
- Co-operating with other volunteers and students to come up with a functional application.
- Attended team meetings and managed team sprints to meet deadlines in a timely manner.

PROJECTS

MOMSINMIND | Swift (XCode)
MomsInMind is an iOS application developed to help moms that deal with postpartum depression (depression after the birth of a baby). This application was developed at my time with llettonna. Swift was used along with XCode to build the blueprints and the reusable parts of the app. Some pages that were developed were the login, settings, home, modules, and exercises pages of the application. Storyboard interface as well as programmatic methods were used to build a functional application

FILTRACK | Java
Filtrack is a Web App used to help users look for music recommendations from a large dataset of 300,000+ tracks. However, it is not your ordinary music recommendations application; it uses scores assigned to each track and match it with the user's input of what kind of music the user would like to hear. During the completion of this project, I learned a lot about the design and implementation of various graphing, sorting, and searching algorithms.

REACBALANCE | Python
ReacBalance is an object oriented python program that balances given chemical equations that can be constructed using other modules that are part of the program. Learned lots of knowledge about software development structure as well as the importance of object oriented programming, modularization, and information hiding.

IMAGE CONVOLUTION | C
A C program that changes an inputted image into another image, given a convolution kernel matrix. Gained knowledge about image processing in software programming.

TECHNICAL SKILLS

LANGUAGES
C • Python • Java • HTML • CSS • Shell •
Matlab • Swift • Assembly (NASM)

TOOLS & FRAMEWORKS
LaTeX• Git • Doxygen • PyTest • JUnit •
NumPy • ValGrind • VSCode • XCode