

Yousam Asham

ashamy1@mcmaster.ca | 647.648.2857

 yousam.ml  yousamasham  yousamasham

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

LLETONNA | IOS APPLICATION DEVELOPER

May 2020 – August 2020 | Hamilton, ON

- Working with Swift to develop the MomsInMind application.
- Co-operating with other engineers 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.

TELEARM | PYTHON

A telescoping arm wheelchair attachment for a quadriplegic patient. TeleArm detects the height of the button to be pressed and applies pressure to it, allowing buttons to be accessible to our patient. Learned how to integrate hardware with software projects.

TECHNICAL SKILLS

LANGUAGES

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

TOOLS & FRAMEWORKS

LaTeX • Git • Doxygen • PyTest • JUnit •
NumPy • ValGrind • VSCode • XCode