Yousam Asham

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TECHNICAL SKILLS

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

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

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), Databases, Linear Optimization, Digital System and Interfacing.

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

- An iOS application developed to help moms that deal with postpartum depression.
- Swift was used along with XCode to build the blueprints and the reusable units of a functional application.

FILTRACK | Java

- A Web App used to help users look for music recommendations from a large data set of 300,000+ tracks.
- Uses scores assigned to each track and match it with the user's input of what music the user would like to hear.
- Designed and implemented various graphing, sorting, and searching algorithms.

REACBALANCE | Python

- A an object oriented python program that balances given chemical equations.
- Applied 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.