

Tasmiha Hassan

Software Engineer (Level 4)

A passionate, dedicated, and enthusiastic 4th-year Software Engineering student who is eager to contribute unique solutions, build meaningful relationships and learn along the way.

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WORK EXPERIENCE

Full Stack Software Developer Intern EMBROSS

04/2019 - 08/2020

Richmond Hill, Canada

Delivers automated self-service solutions to world's airports and airlines

Achievements/Tasks

- Designed and developed a configuration tool that allows colleagues and clients to modify database configurations through a web application using ReactJS and NodeJS Express to execute the SQL queries.
- Developed a simulator for internal testing to imitate a departure control system using Java (Spring MVC) and Javascript (ReactJS and Express).
- Lead the backend development of an ExpressJS API for form submissions, form filtration, and dynamic PDF generation using HTML, CSS and Javascript.
- Actively worked in an agile software development environment which utilized the Scrum process to engage with colleagues across all divisions.
- Modified production software to fix over 55 defects of an airline check-in application written in Java with Spring MVC framework and delivered patches to the clients by the expected deadline.
- Went on a business trip to gather requirements and lead the backend development of implementing a frequent flyer benefits program for an airline through kiosk check-in.

Communications Assistant

McMaster University Department of Pediatrics

01/2019 - 04/2019

Hamilton, Canada

Delivers programming for children and youth ages 7-14 in all areas of STEM

Achievements/Tasks

- Wrote 4 creative and original blog posts that kept the audience engaged with upcoming program events.
- Designed 10 unique and eye-catching visual concepts through various mediums of media such as websites and posters using Photoshop and WordPress.

Computing & Software Student Ambassador

McMaster University Department of CAS

10/2018 - 09/2019

Hamilton, Canada

Provides prospective students with information about McMaster's Computing and Software department

Achievements/Tasks

- Developed promotional materials to assist in recruitment activities for Computing and Software.
- Provided advice to prospective students about the Software Engineering program, residence, and transitioning from High School to University through 10 recruitment events.

EDUCATION

Bachelor of Software Engineering

McMaster University

09/2016 - Present

Hamilton, Canada

Achievements

- 8.4 on a 12.0 scale & 3.3 on a 4.0 scale Cumulative GPA (75%).
- Currently enrolled in Software Engineering (Level 4).
- Completed courses such as Software Design III, Data Structures and Algorithms, Software Testing and Databases.

TECHNICAL SKILLS

Applications

Jira, Salesforce, Git, SVN, Microsoft Office, Photoshop

Frameworks and Tools

ReactJS, React Native, GatsbyJS, Apache Tomcat, PM2, NodeJS Express, Redux, Spring MVC, Maven, Firebase, MySQL, Microsoft SQL Server, TailwindCSS

PROGRAMMING LANGUAGES

Java

Upper-intermediate

C

Intermediate

Python

Intermediate

JavaScript

Upper-intermediate

SQL

Upper-intermediate

R

Beginner

PROJECTS

ScreenIT - Capstone (09/2020 - Present)

- Contactless customer screening software for businesses to automate the new safety protocols such as temperature check and contact tracing for businesses due to the pandemic

Adoptation (2018)

- A Java application that uses the local government dataset of animals in pet shelters to match a user to a pet that best suits them based on a personality questionnaire
- Implemented searching, sorting, and graphing algorithms

FixIt (2018)

- A terminal based python application that automatically corrects incorrect terminal commands
- Supporting Software Requirements Document, Module Guide, and a Test Plan

AWARDS AND ACHIEVEMENTS

3rd Place in Digital Inclusion Challenge (10/2020)

Convergence.tech

- A React Native application that lets users with cognitive disabilities learn to complete structured and scheduled daily tasks to achieve independence
- Worked with students with autism to gather requirements and test

3rd Place in Programming Division of McMaster Engineering Competition (10/2018)

McMaster University

- Developed a predictive text-to-speech keyboard that allows a user with speech impairment to communicate with others using Python and machine learning

CLUBS

Developers Student Club

Google and McMaster

09/2020 - Present

Web Developer

Tasks/Achievements

- Developing the first iteration of the McMaster DSC website
- Implemented website using GatsbyJS, TailwindCSS, and Firebase