Tasmiha **Hassan**

Software Engineer

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Education
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McMaster University   *Hamilton, ON, Canada*
Bachelors of Engineering in Software Engineering | GPA: 3.3   *Sep 2016 – Apr 2021*
- **Extracurriculars:** Web Developer for McMaster Chapter of Google Developer Student Club
- **Courses:** Large Systems Design, Data Structures and Algorithms, Software Testing, Databases, Human Computer Interfaces

Work Experience
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Embross   *Richmond Hill, ON, Canada*
Software Developer Intern   *May 2019 – Aug 2020*
- Designed a configuration tool that allows colleagues and clients to modify database configurations using **ReactJS**, **NodeJS** and **SQL**
- Developed a simulator for internal testing to imitate a departure control system using **Java Spring MVC** and **ReactJS**
- Lead the back-end development of an **ExpressJS API** for form submissions, form filtration, and dynamic PDF generation
- Collaborated in an **agile** software development process and contributed to daily **scrums** 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
- Gathered **software requirements** during a business trip and lead the back-end development of implementing a frequent flyer benefits program for an airline through kiosk check-in

McMaster University   *Hamilton, ON, Canada*
Program Support Assistant in the Faculty of Engineering   *Jan 2021 – Present*
- Team lead of a **React Native** and **Firebase** mobile application for user's with cognitive disabilities to learn daily tasks
- Presented in front of **100** industry professionals for the McMaster Innovation Showcase to gather funding
- Devised the development schedule **Gantt chart**, sprints, wire-frames, **mock-ups** and **high level system design** of the mobile app

Computing & Software Student Ambassador   *Oct 2018 – Sep 2019*
- Provided advice to prospective students about the Software Engineering program, residence, and transitioning from High School to University through **10** recruitment events

Communications Assistant   *Jan 2019 – Apr 2019*
- Designed **10** unique and eye-catching visual concepts through various mediums of media such as websites and posters using **Photoshop** and **WordPress**

Skills
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Programming Languages: Java, Javascript, Python, C, SQL, HTML, CSS
Frameworks and Tools: ReactJS, React Native, GatsbyJS, NodeJS Express, Redux, Spring MVC, MySQL, MSSQL, SVN, Github

Projects
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ScreenIT   *2020-Present* 🔗
Python, NodeJS Express, ReactJS, MongoDB, Git
- A contact-less customer screening application to automate the Government regulated safety protocols such as temperature check and contact tracing for businesses due to the pandemic
- Documented the supporting Software Requirements Document, Module Guide, Test Plan, and designed the Software Architecture diagrams

Adoptation   *2017* 🔗
Java
- A Java application that uses the local government data-set of animals in pet shelters to match a user to a pet that best suits them based on a personality questionnaire
- Implements searching, sorting, and graphing algorithms such as heap sort and binary search to parse through **143,000** entries in a CSV file

Awards
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Nov 2020	**Digital Inclusion Challenge - 3rd Place**, Ranked globally out of **150 teams** for a **React Native** app 📱	*Convergence.tech*
Oct 2018	**McMaster Engineering Competition - 3rd Place**, Predictive text-to-speech keyboard using **Python** and **Machine Learning** libraries 🔗	*McMaster University*