Essa **Saeed**

SOFTWARE ENGINEERING STUDENT · UNIVERSITY OF WATERLOO

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Summary of Skills

Programming	Python, C++, Java, C, Objective-C, Assembly
Web	HTML, CSS, Javascript, jQuery, PHP, MySQL
Exploring	Git, Ruby, Flask

Experience

Apptitude Apps   *Waterloo, Ontario*
SOFTWARE DEVELOPER   *Jul. 2016 - Sep. 2016*

- Developed responsive front end for web application that plays video synchronized with text using HTML, CSS, Javascript and jQuery.
- Assisted in setting up and maintaining the back end for the web app using PHP and MySQL.
- Learned iOS development in Objective-C and published an iOS app with a today widget app extension.
- Crafted regex to parse a 12000 line source text file to be loaded into the app.

Projects

Chaos Game Simulation   *Waterloo, Ontario*
JAVA DESKTOP APPLICATION   *Dec. 2014 - Jan. 2015*

- Created a Java simulation on chaotic order using the Java Swing graphical user interface JFrame.
- Integrated object oriented programming principles through the use of an inheritance hierarchy.
- Formalized the implementation in a design document along with test cases prior to development.

Game Guessing Game   *Waterloo, Ontario*
JAVA DESKTOP APPLICATION   *Nov. 2014 - Nov. 2014*

- Led a team to make a card and board game predictor which predicts the user's chosen game after a few yes or no questions.
- Integrated user input, input file parsing, whiles using classes and inheritance to reduce code repetition.
- Delegated the parts of the project and used online storage for convenient code editing and version control.

Tower Defense Game   *Waterloo, Ontario*
PYTHON DESKTOP APPLICATION   *May. 2013 - Jun. 2013*

- Designed and developed a Pokemon themed tower defense game in Python.
- Utilized the Python tkinter module to create and display the graphical user interface.
- Integrated interactive turret placement, turret ranges, a currency system, and an enemy pathing system.

Education

University of Waterloo   *Waterloo, Ontario*
SOFTWARE ENGINEERING CLASS OF 2020   *Sep. 2015 - PRESENT*

Honors & Awards

2015	**President's Scholarship of Distinction**, University of Waterloo	*Waterloo, Ontario*
2015	**First Place Academic Award with Scholarship**, EMAAN Courtesy of MAC	*Waterloo, Ontario*
2015	**Top 26th Percentile**, The Sir Isaac Newton Physics Contest	*Waterloo, Ontario*
2014	**Computer Engineering Technology Medal**, Sir John A. Macdonald Secondary School	*Waterloo, Ontario*

Extracurricular

President and Event Organizer   *Waterloo, Ontario*
MUSLIM STUDENT ASSOCIATION   *May. 2014 - Jun. 2015*

- Led a group of 20 students to organize events for the school and held weekly meetings.