

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.