**Varisara Muangrat**

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**Education**

**University of Maryland Baltimore County (UMBC)**

Bachelor of Science, Information Systems Minor, Computer Science *December 2020*

**Relevant Coursework**

Discrete Structures, Linear Algebra, Calculus I, Calculus II, Data Structures, Assembly Programming, Principles of Programming Languages, Social and Ethical Issues in Information Technology, Cyber Professional Development, Database Management Systems, Social Media Mining, Active Cyber Defense, Principles of Computer Security, Computer Networks

**Experience**

**UMBC Department of Information Technology - Baltimore, MD**

*Report Developer and Database Manager August 2017 – Present*

* Develop reports and databases using SQL and Reporting Services tools for UMBC’s data warehouse.

**Computer Science Projects**

**University of Maryland Baltimore County**

*Spy Game Fall 2016*

* This C++ program imports data from files and stores data into the linked-list data structure. Using linked-lists and a decryption method along with various member functions, the user is then able to load and display raw or encrypted messages.

*Autofill Spring 2015*

* This Python program takes in a file given by the user which is a template image that is then auto-filled with symbols after the user is prompted for a row and column from which to begin auto fill.
* This program uses recursive functions and two-dimensional lists to complete auto-filling.

*Quad Tree*

* This C++ program implements a variation of the traditional binary tree. This program recursively subdivides a region into four quadrants and manipulates a two-dimensional space given specified points.

**Personal Projects**

*Battleship*

* Implementation of the popular Battleship board game written in Python.

*Interactive Dog Game*

* This Python program written using top-down design practices and two-dimensional lists as it displays to the user a coordinate map of a virtual dog park.

*Smart Infinity Mirror*

* This project combined 3-d printing with python programming on a tablet to display weather, time and date

**Technical Skills**

*Proficient in*:

C Coding Language, Python 3 Coding Language, C++ Coding Language, SQL Coding Language

Comfortable with Linux environment

**Extracurriculars**

Center for Women in Technology (CWIT) – Cyber Affiliate 2014 – Present

MedHacks Hackathon 2017

UMBC Annual Hackathon 2015, 2016, 2017

UMBC Club Tennis 2014 – Present

IEEE 2017 – Present

Linux Users Group 2018 – Present

UMBC Cyber Dawgs 2016 – Present