

Aidan Uy

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EDUCATION

Binghamton University, State University of New York, Watson School of Engineering

May 2020

Bachelor of Science in Computer Science, *magna cum laude*

GPA: 3.8/4.0

Watson School Dean's List

Fall 2016 – Spring 2020

TECHNICAL SKILLS

Proficient in Python, REXX

Familiar with Java, C++, C

Software: Git, Eclipse, Microsoft Visual Studio, Logisim, IDLE, Vim

PROJECT EXPERIENCE

BLUEGATE

July 2019

- Best cybersecurity project in IBM's 2019 US Technical Intern Hackathon
- Created a program that would detect unauthorized entry and send a notification to a slack channel using Python
- Utilized OpenCV library on a video feed to detect the number of people entering a facility, and if the number of people that entered exceeded the number of people that badged in, the code invoked Slack's API to send a notification

ANT HILL

February 2018

- Produced a program that utilized a turn-based system to simulate an ant hill in C++
- Maintained the living ants in a linked list and established a grid in which the ants could move, fight, or find food
- Incorporated chances of the ant hill being attacked and forcing all ants within a radius to defend
- Tracked the actions of each ant, the number of times the ant hill was attacked, and the number of successful defenses

VIRTUAL MEMORY SIMULATOR

December 2017

- Developed a program that simulated converting virtual addresses and looking up page tables in C
- Organized a system to search for virtual addresses in the TLB and in page tables
- Invoked the page fault handlers to simulate OS physical frame allocation, calculated the time needed to access an entry, and replaced unused entries in the TLB and page tables

COURSE SCHEDULER

November 2017

- Constructed a parser that read binary and text files containing data about students and their classes in C
- Stored the data in a linked list and sorted students and classes by name and number with bubble sort

PIPPIN SIMULATOR

May 2017

- Created a simulator of a simple computer with a complete graphical user interface in Java
- Implemented an instruction map, assembler, loader, and an exception handler to load and parse PASM files
- Allowed stepping through instructions, running PASM files at different speeds, and detecting syntax errors

ARCADE CITY

December 2016

- Designed point system that revolved around winning and losing rock, paper, scissors in Python using Pygame
- Generated a text file for storing points and high scores
- Implemented purchasing of other games, such as a higher or lower guessing game, using point system

PROFESSIONAL EXPERIENCE

IBM

Poughkeepsie, NY

z/OS Support Software Developer Intern

June 2019 – July 2020

- Develop new and augment existing REXX executable scripts to analyze z/OS mainframe dumps from customers
- Create tools to format control blocks and gather information from data dumps to present them in a meaningful manner

Binghamton University – Information Technology Services

Binghamton, NY

Residential Computer Consultant

August 2018 - May 2019

- Responded to and resolved technical problems for campus residents
- Managed the library help desk and demonstrated how to solve common issues for students

LEADERSHIP EXPERIENCE

Filipino Intercollegiate Networking Dialogue

Binghamton, NY

National Director

May 2017 – Present

- Set standards and create networks between Filipino clubs in upstate New York and along the east coast
- Organize local and national events with up to seven hundred attendees

Philippine American League

Binghamton University

Educational Chair Intern

February 2017 – May 2018

- Worked with the executive board of the Philippine American League and other cultural organizations to raise awareness about important issues and impart knowledge of Filipino culture