

Matthew Smith

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EDUCATION

University of Maryland, Baltimore County

Bachelor's Degree in Computer Science, GPA: 3.756

Baltimore, MD

Aug. 2020 – May 2024

EXPERIENCE

Information Technology Assistant Intern

Loch Raven High School

Sep. 2019 – May 2020

Towson, MD

- Worked alongside peers in order to fix, replace, and resolve issues regarding both hardware and software
- Reimaged, distributed, and recalled laptops for students
- Installed various software through a cloud system to students' laptops around the schools

Baltimore County Information Technology Intern

Baltimore County Public Schools

June 2019 – Aug. 2019

Towson, MD

- Worked alongside peers to reformat and repair school-distributed laptops
- Reassembled broken laptops, replacing any faulty hardware inside and rebuilding it
- Efficiently reformatted more than 1500 laptops over the course of 3 months

PROJECTS

Binary Search Trees | *C++*

Spring 2022

- Developed a binary search tree data structure which could insert and automatically re-balance data in order to keep a balanced tree
- The tree can be completely cleared of the dynamically allocated memory
- The tree can both find and remove specific nodes of data
- Able to completely traverse the tree and find all nodes present using recursion

Text File Interpretation and Manipulation | *Java*

Spring 2022

- Developed an application which can read in text files, take the words (and strip them of invalid characters) and write out requested data into separate text files
- Application utilizes binary search trees and Java's built-in hash map to store the words in a container
- Application will alphabetically sort the words in the outputted text files
- Application counts how many instances of words are in two different inputted files, and then proceed to put them in separate files based on if they are equal or not

Caesar Cipher and Frequency Decryption | *Assembly, C*

Fall 2022

- Created a working caesar cipher in Assembly that will encrypt a user-chosen message in a list
- Also contains a list of strings that can be overwritten and encrypted
- Using the decryption option, written in C, will take the 5 most frequent letters and attempt to decrypt based on their position from the letter 'e'

News-Based Esports Mobile App | *React, Node.js, JavaScript*

Currently in Progress

- Developing an application that will display relevant news or updates pertaining to the current setting
- App utilizes scraping from other websites to provide articles to the most recent news going on within the community
- App intends to keep up to date with any upcoming professional matches and the most recent results between teams
- App plans on creating a ranking algorithm, where points are distributed based on placings and results throughout a competitive season

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML/CSS, Racket, Intel x86 Assembly

Frameworks: React, Node.js

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Eclipse

Certifications: Microsoft Word 2013, PowerPoint 2013, Excel 2016