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EDUCATION

University of Tennessee

Knoxville, TN

Bachelor of Science in Computer Science GPA: 3.71/4.0

Aug 2020 - May 2024

Relevant Coursework

Programming: Data Structures and Algorithms, Systems Programming, Computer Graphics, Cybersecurity

Math: Discrete Structures, Calculus III, Matrix Algebra, Differential Equations

Circuits: Circuits I, Digital Systems Logic

SKILLS

Programming (Proficient): C/C++, Python, HTML, CSS, Javascript, C# Tools and Frameworks: .NET, OpenGL/WebGL, Docker, Git, VHDL

Operating Systems: Windows, Linux, OS X

Projects

Falcon Quarantine Automation

Programmed and a Python script that accessed the Crowdstrike Falcon API to automatically close the internet connection of a compromised Memphis City work computer. Currently used by the Memphis City Department of Information Technology.

Python Multiplayer Tetris Game

Led a team in building upon an existing, bare-bones Tetris single player client to add online multiplayer and numerous other quality of life features for a class project.

Video Game Recipe Calculator Website

Designed and hosted a website dedicating to help players for the video game Randomly Generated Droids keep track of their in-game crafting capabilities. URL available on my homepage (soon).

3D Solar System Model Webpage

Created a 3D animated model of the solar system using WebGL for a computer graphics project.

Threaded Chat Server

Designed a bare bones command line internet chat server in C for a systems programming lab assignment.

Roblox Asset Trading Bot

Developed a Python script that uses the Roblox web API to scan for virtual items being sold at a below fair market price and automatically purchase them for monetary gain.

Air Hockey Table

Led a team in designing, prototying, and ultimately constructing a functioning small air hockey table for a freshman year team engineering project.

WORK EXPERIENCE

Memphis City IT Department Intern - Summer 2022

Worked for the Memphis City IT department to help automate the typical daily busy tasks of an IT worker such as reviewing recent network detection data and quarantining devices with recent suspicious activity.

Chick-fil-A Cashier - Summer 2021

Learned to work with a team to fulfill orders at one of the busiest Chick-fil-A locations in the nation.

RELEVANT STUDENT INVOLVEMENT

HackUTK

Competed in the U.S. Department of Energy's 2022 Cyberforce Competition as a blue teamer for the University of Tennessee Knoxville. Helped set up the website for the team, configure security settings on the Amazon Web Services EC2 servers, and solved anomalies (online cybersecurity puzzles) to score points for my team.