JARED E MASSA

STUDENT IN COMPUTER SCIENCE

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ABOUT ME:

I am always interested in anything Computer Science related and have loved experimenting with my knowledge. For example, attempting electrical engineering and developing personal programming projects. I've also spent much of my childhood surrounded by music; playing trumpet for 9 years. I use it as a tool to concentrate and relax.

LANGUAGES I SPEAK:

JAVA, C++, C, ASSEMBLY, VBSCRIPT, SQL, C#, PYTHON

PERSONAL EXPERIENCE WITH:

- SIGNAL PROCESSING
- GIT
- NEURAL NETWORKS
- REACT. JS
- ELECTRICAL ENGINEERING

EDUCATION

2016   High School Diploma,
Springfield Township High School

2018   Associates Degree in Computer Science,
Montgomery County Community College

2020   Bachelor of Science in Computer Science,
Temple University (EXPECTED)

NOTABLE SELF-DRIVEN PROJECTS

MultIDE

As senior thesis project at my High School I tasked myself to develop an IDE that allowed multiple programmers to edit the same document simultaneously.   The school donated an old library desktop and granted me permission to install Linux and run custom Java server code to finish my proof of concept for this project.

2D Game Engine

During the summer after I graduated, I dedicated most of my free time to developing a 2D Game engine from scratch in Java. I used an abstracted object system inspired by the Unity3D component design and used LWJGL 2 to let me construct my graphics engine from OpenGL. I also implemented collision detection physics (both Separating Axis Theorem and Axis Aligned Bounding Boxes) and even a sound management system.

Source code available on GitHub

Intranets

Although nowhere near completion, this is a developer tool for adding network communications to a program in Java. This is essentially a UDP communication system that I'm attempting to make easy for developers to implement into their software.

EXTRACURRICULAR EXPERIENCE

Hack4Impact   Duration: 1 Year

Hack4Impact is a nonprofit organization founded at UPenn, and in 2018 I was accepted as a founding member to the Temple University chapter. The group accepts computer-science related projects from other non-profit organizations and completes these projects as a sort of charity for the client. We have regular meetings with each client to ensure QA and are currently developing for Kiva.

Competitive Programming Team   Duration: 2 Years

I was the leader of the Competitive Programming Team at my high school, where we competed and finished in the top 10% globally at multiple CTF (capture the flag) hacking competitions. We learned how to break into servers, take advantage of programming errors, and utilize cryptography methods such as steganography. We used languages such as Python, Java, and JavaScript.

Boy Scouts/Venture Crew   Duration: 6 Years

I've been a Boy Scout and member of the local Venture Crew 426 (Venture Crew is the advanced sector of Boy Scouts for ages 14-21) since the day I turned 14. In this crew, the scouts run the trips and activities, and advisors simply advise. I have held various leadership positions such as President, Vice President, Treasurer, and Equipment Manager. These positions included responsibilities such as inventory management, money management, ensuring permits were obtained, activity paperwork was filed, and planning for handling emergency situations during the activity at least 1 month before the trip date.

PREVIOUS WORK EXPERIENCE

Pharmacy Technician   Started: March 2017

Working for CVS as a pharmacy technician is a very stressful job, but comes with its benefits. The pharmacy is very busy, and relies heavily on good teamwork and communication skills to ensure everybody gets their medication legally and quickly. Many customers wait for scripts to be filled, and a single error will let an insurance company bypass payment after a yearly audit (meaning CVS loses money, and I lose my job). Therefore, to be a successful technician you need speed and precision.

CURRENT AND PAST RELEVANT SCHOOL EXPERIENCES   (CLASS CODE)

Current:

Introduction to Systems Programming and Operating Systems	Temple CIS 3207
Math Concepts in Computing II	Temple CIS 2166

Completed:

Computational Probability and Statistics	Temple CIS 2033
Computer Systems and Low-Level Programming	Temple CIS 2107
Calculus II	Temple MAT 1042
Game Design Practice and Theory	MontCo CIS 176
Discrete Mathematics	MontCo MAT 125
Data Structures and Algorithms	MontCo CIS 112
Database Management Systems with SQL	MontCo CIS 245
Computer Architecture and Organization	MontCo CIS 126
Visual Basic	MontCo CIS 122

- *"MontCo" is the shorthand name for the Montgomery County Community College, where I earned my Associates.*