

JARED E MASSA

STUDENT IN COMPUTER SCIENCE

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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)

LANGUAGES AND EXPERIENCE

HIGHLY SKILLED WITH:

JAVA	C	C++	JAVASCRIPT
VBSCRIPT	SQL	C#	PYTHON

AND ADDITIONAL EXPERIENCE WITH:

GIT	REACT.JS	SIGNAL PROCESSING	NEURAL NETWORKS
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NOTABLE SELF-DRIVEN PROJECTS

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. Engine complete with collision detection, physics and rendering!

[Source code available on GitHub](#)

Lightweight 3D Game Engine (LW3DGE)

As a side project over the last semester I've been developing a 3D Game Engine Framework with significantly more advanced features than in my 2D model. This engine is titled Light Weight 3D Game Engine, and will include collision detection, advanced rendering, 3D lighting, and more!

[Source code available on GitHub](#)

MultIDE

As senior thesis project at my High School I developed an IDE to allow 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.

PREVIOUS WORK EXPERIENCE

Pharmacy Technician

Started: March 2017

A pharmacy is a very fast paced workplace and relies heavily on good teamwork and communication skills to ensure everybody gets their medication legally and quickly. A single error will lose the company money, therefore, to be a successful technician you need speed and precision.

EXTRACURRICULAR EXPERIENCE

Hack4Impact

Duration: 1 Year

Hack4Impact is a nonprofit organization founded at UPenn, and in 2018 I was accepted as one of the first members 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.

Boy Scouts/Venture Crew

Duration: 6 Years

I'm sure we've all heard of these organizations, so I'll skip to stating I have held various leadership positions such as President, Vice President, Treasurer, and Equipment Manager. This taught me great leadership, and team-building skills, and helped me become better at public speaking.

CURRENT AND PAST RELEVANT SCHOOL EXPERIENCES

(CLASS CODE)

Introduction to Systems Programming and Operating Systems

Temple CIS 3207

Math Concepts in Computing II

Temple CIS 2166

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.

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 hacking competitions. During weekly meetings I would instruct the team on programming exploitation, to prepare us for the next competition. We used languages such as Python, Java, C, and JavaScript.