

# Jared Massa



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## Education

2016	High School Diploma	Springfield Township High School
2018	AS in Computer Science	Montgomery County Community College
2021	BS in Computer Science	Temple University; College of Info. Science & Tech.

## Skills

Proficient Languages	C, Java, C#, JavaScript
Familiar Languages	C++, Python, SQL, React.js, HTML5/CSS3, Visual Basic
Frameworks/Tools	XNA, Git, Unity Engine, OpenGL, LWJGL, MS Office, Maven, AWS (S3, EC2)

## Work Experience

### Hack4Impact Temple

*Fall 2019*

Collaborated with a team to develop a training website for Kiva. Although unpaid, we used React.js and MongoDB and spoke directly to managers and developers at Kiva bi-weekly through video conferences.

### Pharmacy Technician

*Spring 2017- Cur*

Worked for CVS/Pharmacy as a technician, including activities such as data entry, production, sales, patient profile management, and recently COVID-19 testing.

## Projects

### 3D Game Engine

*Summer 2018*

Used LWJGL 3 to expose access to OpenGL/GLFW in Java and wrote a custom rendering engine. The engine is capable of efficiently rendering over one million vertices in a frame, and capable of managing up to 10 different non-static colored light sources.

### Leo.ECS

*Summer 2020*

Leo.ECS is a medium-weight entity component system written for use with MonoGame/XNA development. The ECS uses interfaces to define basic component functionality, and comes equipped with basic collision detection, repositionable camera's, and 14 component events to define callbacks for.

### XNA Game

*Summer 2020*

Developed an incomplete RTS game using XNA that allowed for efficiently handling tile maps up to 1000x1000 in size, and had such features as multi-threaded A\* pathfinding for units, state machine behavior with job assignment for units (up to 600 in a world at a time), custom map generator using 4D Perlin noise, and a spatial tracking system for nearest neighbor searches.

### Temple Crime Router

*Spring 2020*

A hackathon project using React.js, Python, and data from OpenStreetMap and the Philadelphia Police department to choose a route across the Temple University Campus that is a mix between the fastest route, and "safest" route (least known crimes).