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*
  - A volunteer position working for a non-profit organization.
  - Used React.js and MongoDB to build a new and professional training website.
  - Had bi-weekly meetings with engineers and managers to keep the company informed on progress.
- **Pharmacy Technician** *Spring 2017- Cur*
  - Worked for CVS/Pharmacy as a technician, helping interact with customers.
  - Performed many forms of data entry and data management on patient profiles and prescriptions.

Projects

- **3D Game Engine** *Summer 2018*
  - Used LWJGL 3 to access to OpenGL/GLFW in Java and wrote a custom rendering engine.
  - 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. (No HDR or baking though)
- **Leo.ECS** *Summer 2020*
  - Leo.ECS is a medium-weight entity component system written for use with MonoGame/XNA.
  - The ECS exposes 14 unique component events to define callbacks for.
  - Comes equipped with basic collision detection, repositionable camera's, and object layers
- **XNA Game** *Summer 2020*
  - Developed an incomplete RTS game using XNA, a custom ECS, and entirely custom code.
  - Features multi-threaded A* pathfinding, lightweight FSM for units with job assignment, custom spatial tracking system for *k*-NN queries, and a custom map generator using Perlin Noise.
  - Capable of efficiently handling tile maps up to 1000x1000 in size, and up to 740 active units performing designated jobs.
- **Temple Crime Router** *Spring 2020*
  - Combined and queried data from multiple sources to find the safest route across Temple's Campus
  - This project used React.js, Python, and data from OpenStreetMap and the Philadelphia Police department – built in 1 day for the Owl Hacks Hackathon.