

Hannah Rogers

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WORK EXPERIENCE

- Raven Software, Activision**, Middleton, WI, *Associate Rendering Engineering* July 2023 - January 2024
- Took the lead on a new shader feature and worked closely with artists to introduce and assist with its application
 - Refactored closely coupled code in order to make prior functions reusable and to avoid redundancy
 - Collaborated with graphics teams across studios on overlapping features
 - Participated in weekly manual play testing, provided feedback, and reported bugs for Modern Warfare III
- Raven Software, Activision**, Middleton, WI, *Rendering Software Engineering Intern* May 2022 - August 2022
- Communicated within my team and across departments to identify requirements for a new feature
 - Created a new material feature using HLSL and C++ and implemented the plumbing to pass information from the frontend to the shader
 - Manually tested and debugged code using the in-house asset production engine
 - Used and furthered 3D math and optimization skills in a real-time rendering engine
 - Participated in weekly manual play testing, provided feedback, and reported bugs for Modern Warfare II
- Intel**, San Francisco, CA, *Graphics Software Engineering Co-op* January 2021 - July 2021
- Contributed to the development of the broadcast and coaching products on the Olympics Technology Group
 - Gathered historical data and wrote scripts using Python, C++, and Unity to test graphics capability of data visualization application and the broadcast pipeline's data generation, and collaborated on their improvements
 - Collaborated with teammates to implement an algorithm for smoothing skeletal data gathered from motion capture to generate an accurate 3D model and animation
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PROJECTS

- Interactive Bee Scene**, CS5310: Computer Graphics December 2021
- Utilized C++, OpenGL, SDL, and GLSL to create and render a scene of bees in a honeycomb space
 - Implemented mouse and key event user navigation
 - Developed an OBJ Wavefront parser, implemented shading, normals, framebuffers, and blending
- Mellifera**, CS3540: Game Programming June 2020 - July 2020
- Worked in a team to design and develop a 3D Unity game using the Unity UI Engine and scripting in C#
 - Created assets, animated models, and implemented a finite state machine for non-player character behavior
 - Collaborated on level design, game states, and player implementation to create levels with increasing difficulty
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EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA

Khoury College of Computer Sciences

2017 - 2023

Bachelor of Science degree in Computer Science and Media Arts (Summa Cum Laude)

May 2022

Master of Science degree in Computer Science (Magna Cum Laude)

May 2023

COMPUTER KNOWLEDGE

Languages: C++, C#, GLSL, HLSL, OpenGL, WebGL, Java, Python, JavaScript, TypeScript, jQuery, React, Vue, Html/CSS, SQL, PHP, JUnit, Jasmine, Chai

Systems: Windows, MacOS, Android, Linux

Software: Unity, Unreal Engine, Perforce, GIT, IntelliJ, Eclipse, Visual Studio Code, Android Studio, PostgreSQL, SVN, Maya, Blender, Houdini, Solr, Adobe Creative Suite