



# QUINN AHO

## WAYNE STATE UNIVERSITY (AUG 2022 – JAN 2025)

Bachelor's in Computer Science Engineering

**Major GPA: 3.86**

Overall GPA: 3.12

### Relevant Classwork:

Computer Graphics I  
Data Structures + Algorithms  
Computer Science I&II  
Java Programming  
C++ for Gaming  
Technical Communications I&II

### Awards & Honors:

**Congressional App Challenge Winner**  
Deans List for past 3 years  
Upper Peninsula Diving Record Breaker  
Edward Gaffney Scholarship  
Bernard Gaffney Scholarship

## WORK EXPERIENCE

### Immersive / Software Dev. Intern @ Johns Hopkins APL (May 2024 – Present)

- Contributed to the development of vehicle training simulation software for Navy soldiers using **Unity and C#** @ the Johns Hopkins Applied Physics Lab (APL).
- Developed an internal vehicle CAD viewer** using Unreal Engine for maintainers to easily visualize vehicle subsystems.
- Developed Shaders for Simulation Environment.

### **Multiple Positions @ GS Engineering:**

#### Simulation Engineering Intern (Nov 2023 – May 2024)

- Led the development of a KPI plugin** for extracting and analyzing vehicle data in Unreal Engine.
- Created and optimized vehicle mockups in Blender and Unreal Engine, focusing on rigging, suspension, and collision.

#### Technology Growth Intern (Highschool: May 2021 – Aug 2022)

- Researched and developed VR simulation environments** and interactive models for military applications in Unreal Engine.
- Produced ground vehicle VR and mockup simulations.

#### VR Visualization Intern @ Corvid Technologies (May 2023 – Aug 2023):

- Unreal Engine Blueprint & C++ VR Software and Tool development.
- Created a Start to finish promotional cinematic animated showcase for Raytheon Technologies.**
- Created a VR IK ATD Positioning Tool.**

#### Junior Unreal Developer (Contract) @ NextGenCoding (Sept 2024 – Nov 2024)

- Designed animations and integrated APIs for **realistic AI MetaHumans**, enabling interactive user conversations in Unreal Engine.

## PERSONAL PROJECTS | PORTFOLIO WEBSITE: <https://quinnaho.dev/>

### The Golem's Curse | Unreal Engine 5 Cinematic: <https://www.youtube.com/watch?v=d8QPDpQIJl4>

- Created a **full-length cinematic utilizing UE5!**
- Software Stack: **Unreal Engine** - Lighting, VFX, Animation, Cinematography, Environment Design, **Ableton Live** - Sound Design, **Davinci Resolve** - Post Processing

### Realistic AI Avatar Animation System

- Led the development of a lifelike animation system for an AI-driven avatar**, enhancing realism and user immersion.
- Designed and optimized animation state machines, blending techniques, and procedural animations in Unreal Engine.
- Integrated motion capture data and synchronized animations with real-time AI interactions for seamless behavior.

### Founder | ImmersaLab <https://immersalab.dev/>

- Developed **an AI-driven Niagara FX plugin** and other AI-powered tools for real-time VFX and procedural simulations.
- Created cinematics and interactive XR experiences, integrating AI avatars and virtual assistants.
- Led MetaHuman animation, utilizing **mocap and traditional techniques** for high-quality visuals.
- Specialized in real-time rendering, VFX, and procedural environment generation in Unreal Engine.

## RELATED SKILLS

### Experience in/with:

UE4 & 5 C++/Blueprint  
Python/Java/C#/C++  
Jira + Confluence  
Project Management/Leadership  
XR Development (HTC + Oculus SDK)  
Hugging Face/ GPT API  
HTML/CSS/JS/Three.js  
PowerShell Scripting  
NX/Solidworks/3DS Max

Unity/C#  
Git & Perforce / Gitlab & Bitbucket  
Agile Software Methodologies  
Graphics/Shader Development (OpenGL)  
Model/Geometry Optimization  
Node.js / MongoDB  
UI/UX Design  
VMWare/Virtualization Config  
Ableton/Sound Design

## PROFILE

I'm a passionate developer with a focus on Software Engineering, Technical Art and Game Engine Development, eager to get an early jumpstart my career. Outside of coding, I'm a professional snowboard instructor and pianist, flipping enthusiast, and, above all, a creator at heart!

## CONTACT

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STARTUP WEBSITE:  
<https://immersalab.dev/>