# Amit Nemani

VR Developer/Gameplay Programmer

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https://ventus-ire.github.io/portfolio/

## Software Engineer (Effort Lead iOS and VR)

**NSWCDD (Dahlgren Civilian) from Sept. 2022 – Present**

- Deployed VR and iOS applications to Air Force to train operators on weapon systems.
- Created reusable shaders and UI assets and use programming to create visual effects for them
- Created particle systems that could display AI generated Neural Radiance Fields (NeRF) and Gaussian Splats
- Created sound effects as a foley artist to recreate gunship sounds and make UI sound effects
- Programmed system to manage and use audio effects
- Created motion captured animations to demonstrate training procedures

## Software Engineer

**SCCI (Dahlgren Contractor) from Nov. 2020 – Sept. 2022**

- Developed and delivered a VR trainer for student operators
- Programmed hand-tracked interactions and UI using Varjo SDK and Leap Motion
- Created assets to enhance visual feedback including shaders, animations, and VFX
- Optimized large CAD files, lighting, and point clouds for VR
- Developed solution for recorded motion captured tutorials
- Developed and delivered a supplementary iPad app for student operators

## Production Assistant

**Workinman Interactive from May 2016 -  January 2018**

- Collaborated with teams of developers and artists to iterate on multiple projects quickly
- Worked primarily as a quality assurance tester
- Created sound assets and voice overs for games aimed at a youth audience

## Education

**Rochester Institute of Technology**
Bachelor of Science in Game Design and Development
Graduated December 2019

**Northeastern University, D'Amore-McKim School of Business**
Completed 1.5 years towards Bachelor of Science Degree in Business Administration

## Skills (Software)

- Unity 2023.2.18, 2022.3, 2021, 2020, 2018.3.7
- VR Development for Varjo, Vive, Oculus
- Unreal Engine 4, Unreal Engine 5
- iOS App Deployment, XCode
- Adobe Audition, Audacity, Ableton Live 10
- Blender, Maya 3D, instaLOD

## Skills (Languages)

- C#, C++
- HTML, CSS, JavaScript

## Interests

- Virtual Reality
- Game Design and Creation
- Tennis
- Guitar