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EDUCATION

Rochester Institute of Technology

Bachelor of Science, Game Design and Development, Summa Cum Laude

Master of Science, Game Design and Development

Rochester, NY

May 2024

May 2024

SKILLS

Programming Languages: C++, C#, HLSL, Java, Javascript, Python

Software: DirectX 11, Github, Perforce, Visual Studio

Development: Gameplay Programming, Game Engine Programming, Graphics Programming, 3D Math

Game Engines: Unity, Monogame, Playstation 4 Development Kit, Unreal Engine 4

GAME DEVELOPMENT EXPERIENCE

Changeling VR

Game Developer

Rochester, NY

Summer 2023

- Worked with a team of 70 RIT students on a virtual reality narrative mystery game
- Utilized Unreal Engine 4 blueprints to implement a diegetic UI and enhance player interaction
- Resolved technical problems for the level designers as they were uncovered, streamlining the prototyping process for content creation

Rockstar Games

AI Programmer Intern

Andover, MA

Summer 2022

- Developed a novel input system for debugging tools and potential game mechanics
- Investigated Rockstar's proprietary game engine to ideate possible features
- Gained proficiency in industry-standard C++ practices via mentorship and codebase observation

PROJECTS

Elbran Engine (Personal Project)

November 2024 - Present

- Developed a custom game engine for prototyping 2D games in C++
- Utilized DirectX 11 and HLSL to set up a rendering pipeline and add advanced graphical features including post-processing, particles, and lighting
- Abstracted the platform layer and graphics API to simplify future porting requirements

Cauldron Craft (Personal Project)

December 2023 - November 2024

- Designed and developed a 2D turn-based tactics game in Unity using C#
- Implemented an artificial intelligence enemy system for automated computer opponents
- Wrote HLSL shaders for visuals effects such as outlines and particles

PS4 Space Game (Academic Project)

December 2023

- Developed a simple space shooter game on a Playstation 4 development kit using C++
- Leveraged graphics programming knowledge to set up a rendering pipeline for game objects

ADDITIONAL EXPERIENCE

Volante Farms

Produce Handler

Needham, MA

December 2024 - Present

- Collaborated with teammates to ensure a consistent quality and quantity of produce in stock

Rochester Institute of Technology

Teaching Assistant

Rochester, NY

2022 - 2024

- Assisted students with learning C# and evaluated programming assignments

Arbor Biotechnologies

Operations Coordinator Intern

Cambridge, MA

Summer 2021

- Assisted with inventory management and scientific research operations