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@DavidHJC

in Jincheng (David)

Personal Profile

- Career Objective: Game Development, Game Level Design, Game Engine Development (C++)
- Availability: Available from September
- · About Me: Expected graduation: Sep 2025, Responsible, Enthusiastic to learn, always willing to communicate

Skills

- Programming Languages
 - 2 years: C++
 - 1 years: C#, Java
 - 3 years: Python, C
- · Technologies & Frameworks
 - Graphics & Game Dev: DirectX 11, Unity Engine, Unreal Engine 5
 - Tools & Others: Houdini, Blender, Git

Education

Sept 2024 - Sept 2025

■ University of Warwick Master of Science - MS, Game Engineering C++, Computer Graphics, Game Development

Sept 2020 - Jul 2024

Hong Kong Baptist University Bachelor of Science - BS, Computer Science and Technology Operation System, Data Structure and Algorithm

Employment History

- Jul 2022 Oct 2022 | Intern, IT Department, BMW Brilliance Automotive
 - Contributed to the 6th update of the internal JOYCHAT application's bus route module (launched Aug 1st).

Project Experience

- Extreme Sports Game Collaborative Development | UE5/Houdini | 2025
 - Responsible for level design and generation, as well as core gameplay implementation.
- · 2D Pixel Mecha Dual Joystick Shooter Game | C++ | Warwick University Game Jam October 2024
 - Fully implemented a 2D dual joystick shooter game in C++.
 - Developed custom NPC data, data-driven map, collision detect and animations.
 - Self-learned Blender for character animation and map creation.
- PCG City Generator Based on Houdini | UE5/Houdini | Graduation Project 2024 2025
 - Developed a PCG city generator based on Houdini.
 - Supports custom city zoning, customized roads
 - visualized city zoning parameter panel, and external asset import.
- Basic Ray Tracing Renderer | C++/DirectX 11 | 2024
 - Implemented core rendering functions, including Physically-Based Rendering (PBR) and path tracing for global illumination.
 - Implemented GGX microfacet model, importance sampling, and adaptive sampling.
 - GitHub: https://github.com/Davecodingking/RTBase.git
- Basic 3D Game Rasterization Engine | C++/DirectX 11 | 2024
 - Developed a basic 3D engine using C++/DirectX 11, implementing key rendering features such as deferred shading.
 - Built fundamental game systems, including skeletal animation and collision detection.
- Unity3D Survival Game "Seed of Eden" | Unity3D | 2022
 - Implemented core game systems for the survival game, including item management, combat, crafting, and building systems.

Interests

- Learning news and tech on Games and AI industries via Youtube
- Sports: Weight Lifting, Cycling