Sudip Pan

Unreal Engine | Game Development (Blueprint Focused)

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Summery

Blueprint-focused Unreal Engine 5 game developer and Electronics & Communication Engineering undergraduate with hands-on experience in modular gameplay systems, combat mechanics, and real-time rendering. Experienced with engine source builds, RTX features, and industry-standard version control workflows.

Technical Skills

- **Game Development:** Unreal Engine 5 (Blueprints), Gameplay Systems, Component-Based Architecture

- **Character Systems:** Combat Mechanics, Player Stats Systems, Motion Matching

- **Rendering & Performance:** NVIDIA DLSS, DLSS Ray Reconstruction, Frame Generation, NIS

- **Version Control:** Perforce

- **Programming Knowledge:** C++, C, Python

- **Tools:** Blender, Unreal Engine

Projects

Legacy — Sci-Fi Action Game (Unreal Engine 5)

Personal Project | Blueprint-Focused Development Visual Gameplay Demo showcasing RTX features and performance optimization — available on LinkedIn

- Developed a sci-fi action game set in a simulated world using Unreal Engine 5 Blueprints.
- Built the project on the NVIDIA RTX branch of Unreal Engine 5.7.
- Designed a fully component-based combat system including sword, rifle, punch, shield montages, and dodge mechanics.
- Implemented a modular Player State system using Blueprint components, decoupled from the Character Blueprint.
- Integrated NVIDIA DLSS, DLSS Ray Reconstruction, Frame Generation, and NIS sharpening.
- Implemented motion matching for responsive character locomotion.
- Created a basic enemy AI to validate combat mechanics.
- Developed an in-game settings menu.
- Used Perforce for version control.

Experience

- **Google Developer Student Clubs (GDSC), RKMGEC**   Nov 2022 – Present
- Participated in collaborative technical activities.

Education

Ramkrishna Mahato Government Engineering College, Purulia   2022 – Present
Bachelor of Technology — Electronics and Communication Engineering

Certificates

- ENVISION 2023
- Google Solution Challenge 2023