

# Sudip Pan

## Unreal Engine | Game Development (Blueprint Focused)

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Portfolio: [Sudip's Portfolio](#)

### Summary

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)

**Demo Videos:** [Sudip's Portfolio](#)

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

- 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.

### Education

#### Ramkrishna Mahato Government Engineering College, Purulia

2022 – Present

Bachelor of Technology — Electronics and Communication Engineering

#### Class XII

WBCSE --- Ramjibanpur Babulal Institution

2021

#### Class X

WBBSE --- Ramjibanpur Babulal Institution

2019