SUNIL SAPKOTA

Programmer . Gandaki, Nepal . therealsunx@gmail.com . therealsunx.github.io

Summary

A programmer with passion for solving problems with code. Decent experience in making games, game & physics engines, web apps and tools like text editors.

Skills

- Game Development (C++, Unity, C#)
- Game Engine Development (C/C++, 2D and 3D graphics & physics, ECS)
- Desktop Apps/Tools Development (C, C++, Python)
- Web Development (React, Nextjs, Threejs, Fiber)
- 3D Modelling and Animation (Blender)
- Pixel art and Animation (Aseprite)

Projects

- **trvim** - is a text editor, built in C. It is similar in operation to vim and supports features like syntax highlighting, split screen view, buffer-view based file editing, etc.
- **PhysX-2D** - is a cross-platform 2D game/physics engine library developed from scratch in C/C++, that provides window management, sprite rendering, textures & shaders loading, physics-system handle as well as inbuilt Entity Component System.
- **Endless** - is a 3D endless arcade/adventure flight game, built with Unity, with dynamic environment generation providing thrilling gameplay.
- **Edge-Of-Space** - is a 2D arcade classic, built with Unity, perfect for passing time with some action.
- **libhash** - is a library that brings hash-maps (or dictionaries) to C language.
- **tr-ecs** - is a fast and easy to use Entity Component System in C++.

Relevant Experience

Software Developer @*MarginTop Solutions since Nov 2023*

- Developed interactive and responsive websites for clients using different frameworks like React, Next.js.
- Developed 2D and 3D configurator-based web products using THREE, Fiber and Konva.
- Collaboration with backend engineers, designers and project managers to develop qualitative websites.
- Gained proficiency in modern frontend development frameworks and API integration.
- Setting and maintaining Continuous Integration/Continuous Deployment (CI/CD) pipelines for products.

Education

- Bachelor's Degree in Computer Engineering : Tribhuvan University : 2021-2025 (undergoing)
- High school : Madhyabindu Multiple Campus : 2021

Certifications

- EA software engineering virtual Job Simulation Completion Certificate
- Executive Member tenure completion in Robotics Club, WRC

Note: Check out therealsunx.github.io for more information