

Phani Srikar

ENGINE DEVELOPER · GRAPHICS PROGRAMMER

Bangalore, India

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"Pixels....Ummm.... I eat tasty pixels for Breakfast, Lunch and Dinner."

Skills

Programming Languages	C, C++, Lua, C#, GLSL, HLSL, PSSL2
Consoles	PS5, PSVR 2
Graphics APIs	AGC (PS5), OpenGL, Vulkan, DirectX 12
Other APIs	QT
Tools	Visual Studio, RenderDoc, NSight, Blender, Razor, XCode
Game Engines	Unity, Unreal, Phyre Engine, Godot

Work Experience

Graphics Programmer

THE FORGE INTERACTIVE, INC.

California, United States (Remote)

June. 2024 - Present

- Working on The-Forge rendering engine enhancements

Graphics Programmer

SONY INDIA SOFTWARE CENTER

Bangalore, India

Sep. 2021 - June. 2024

- Project - SIE (PS5 SDKQA-Graphics team)
- Researching rendering techniques for PS5
- Developing an internal game engine for PS5 and PC for SARD, Sony India
- Developed a Game Automation Framework for Engine using Imitation Learning
- Ported Sony centre metaverse to PS5 and PSVR2
- Reproduced graphics related papers for R&D teams

Computer Graphics Engineering Intern

VIGA ENTERTAINMENT TECHNOLOGY

Bangalore, India

Feb. 2021 - Apr. 2021

- Implemented IMU based motion capture pipeline from scratch and development of proprietary motion solving algorithms
- Implemented Research practices in motion capture to production pipeline
- Designed a QT - Vulkan application for visualisation of the 3D motion capture data + plugin for Unreal engine
- Contributed to understanding of IMU sensor data and improvement of sensors workflow

Projects

Razix Engine

[https://github.com/](https://github.com/Pikachuxxxx/Razix)

[Pikachuxxxx/Razix](#)

HIGH PERFORMANCE RESEARCH ENGINE FOR PRODUCTION PIPELINE

- Cross-Platform 2D and 3D engine with multi render API support (GL, VK).
- FrameGraph based on EA's frostbite engine and Bindless materials
- Jolt physics engine and lua based scripting
- Global Illumination using Light Propagation Volumes
- Editor and Tools built using QT
- Custom memory, STL and mesh formats for fast mesh loading using job system

Fireworks Engine

<https://github.com/PikachuXXX/Fireworks-Engine>

LIGHTWEIGHT SANDBOX GAME ENGINE USING OPENGL FOR ADDITIONAL CUSTOMISATION AND QUICK PROTOTYPING

- Created a complete 2D and 3D rendering pipeline from scratch using OpenGL as the backend API
- Created a simple and clearly documented Engine and Scripting API for faster development and customisation
- Added support for 2D and 3D Audio with an extensive API using OpenAL
- Designed a component system for rigidbody, transform and supports up to 20 components with a simple Interface to extend to new components
- Implemented a simple material system that leverages both the forward and deferred rendering pipelines
- Implemented 2D sprite animation and 2D Physics (Box2D). Also supports true type font rendering
- Implemented 3D skeletal animation and primitive 3D physics algorithms and responsive camera system
- Designed Highly optimised Batch Renderers for 2D and 3D primitives as well as 3D models for static and dynamic meshes

Presentations

STEF'22 - Sony technology Exchange Fair

Tokyo, Japan

PRESENTER FOR AUTOMATING FAST GAMEPLAY TESTING USING IMITATION LEARNING

Dec. 2022

- Presented demos on how the system can be used with various engines/games to automate gameplay
- Participated in Q/A and discussion sessions

Open Source Contributions

Bosca Ceoil

<https://github.com/TerryCavanagh/boscaiceoil>

BOSCA CEOIL IS A FREE, EASY TO USE TOOL FOR CREATING MUSIC!

- Maintainer of Bosca Ceoil for MacOS system
- Played a crucial role in extending the life and support of the software

Education

Sreenidhi Institute of Science and Technology

Telangana, India

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING

Aug. 2017 - July. 2021

Narayana Junior College

Telangana, India

CLASS XII

Aug. 2015 - Aug. 2017

Hobbies

- Gaming
- **Speedcuber** - can solve a wide range of puzzle before you say brrr.
- Badminton
- Amateur Guitarist
- Homebrew Development