Shivasankar Kannan

Software Developer

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EDUCATION

Carnegie Mellon University, Entertainment Technology Centre
Master of Entertainment Technology

PITTSBURGH, PA (MAY 2021)

Building Virtual Worlds, Visual Story, Gameplay Programming

Birla Institute of Technology and Sciences, Pilani
B.E. (Hons.) Computer Science, M.Sc. (Hons.) Biological Sciences

HYDERABAD, INDIA (MAY 2016)

Computer Graphics, Design and Analysis of Algorithms, Bioinformatics, Data Structure and Algorithms

KM Music Conservatory, Chennai — Summer Program

JUNE 2015

World Percussion Ensemble

ACADEMIC PROJECTS

Building Virtual Worlds, Programmer, ETC, Fall 2019

- Programmed gameplay and composed music for 5 successful games and experiences over the course of 9 weeks across platforms
- Designed and implemented interactions on platforms like Magic Leap, HTC Vive, Oculus and Leap Motion and CAVE with Phidgets
- Designed and programmed AR/VR interactions for all projects using platform SDKs in Unity

EXPERIENCE

Tau Films, Hyderabad — *Pipeline Technical Director*

JULY 2016 - JULY 2019

- Integral part of the early development of **TACO** – the proprietary pipeline tool used across the studio and by remote artists and vendors
- Integrated Studiolibrary, Qt.py and Rez – three industry-standard open source solutions – into Tau's code base
- Setup GPU based Redshift render pipeline which increased the teams efficiency by 60%

Dreamworks Animation, Bengaluru — *Animation TD Intern*

JULY 2015 - DECEMBER 2015

- Wrote pipeline handoff tool enhancements that were used in **Boss Baby** (2017) and **Trolls** (2016)
- Supported the animation department and developed review and workflow tools in PyQt

PERSONAL PROJECTS

MIDI + Unity: Developed a prototype for animating 3D objects with MIDI data from ROLI's MIDI controller

Composer, singer and producer for the music video of Raastha - ROOH, multicultural music and video project.

KM Music Conservatory : Composed an experimental track using unrelated, independent instrument recordings and mixed it for 5.1 surround sound

SKILLS

Languages and Frameworks: Python, C++, C#, Qt Framework, ChucK, PyMel, Alembic, SQL, Flask, Bash

Software: PyCharm, Visual Studio Code, Maya, Adobe Premiere Pro, Unity 3D, JIRA, Shotgun, Jenkins, Git, Perforce

EXTRA-CURRICULAR

Sponsorship Head – Virasat, SPICMACAY BITS Pilani Hyderabad

Co-founder and President – ENACTUS BITS Hyderabad

Joint Secretary – Music Club at BITS Pilani Hyderabad

Carnatic Vocalist and Mridangist (South Indian Classical Music Form)

FOH Engineer, Royal Opera House Muscat : 2014 summer