HARIHARAN M

Senior Software Developer

📞 +91 9980773594

www.linkedin.com/in/hariharan-manoharan-6b059958

https://www.kaggle.com/hariharan849

https://github.com/hariharan849

✉ hari.haran849@gmail.com

📍 Bangalore, IN

JOURNEY SO FAR

Senior Software Developer with 9 years of experience in VFX and Oil and Gas, specializing in 2D pipeline development and tool integration. Expertise in roto, prep and compositing workflows, Nuke migrations, and AI tool integration. Proven track record in streamlining processes and enhancing artist efficiency.

TensorFlow Certified and passionate about advancing VFX technology.

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EXPERIENCE

Senior Software Developer   📅 02/2018 - Present

Moving Pictures Company   📍 Bangalore, India

VFX Company

- Led Nuke & Python Migration: Spearheaded the migration from Nuke12 to Nuke14 and Python2 to Python3, enabling shows to run across Nuke12, 13, and 14 in a mixed Py2/Py3 environment, ensuring seamless compatibility and minimal downtime.
- Show Delivery Expertise: Proficient in resolving show delivery issues, handling everything from rapid front-end development to the final client delivery of assets and Nuke scripts, ensuring high-quality outputs under tight deadlines.
- Cross-BU Asset Transfers: Facilitated cross-BU asset transfers, enabling smooth sharing and management of resources across multiple shows, improving collaboration and reducing redundancy.
- Pipeline Optimization: Streamlined pipelines to improve efficiency and support complex multi-show environments, ensuring better resource management and faster delivery.
- Developed a Template-Based Solution: Optimized farm resource utilization by creating a dynamic template system that enabled on-the-fly multi-shot workflows, allowing supervisors to efficiently manage and review multiple shots simultaneously.
- Enhanced Review Workflow: Contributed to the NukeStudio-based review system, streamlining entire sequence reviews and improving collaboration by transitioning from a Shotgun-based workflow to a more integrated NukeStudio environment
- Developed Roto Prep Pipeline: Built a complete roto prep pipeline using Silhouette Boris FX, streamlining the entire process from gather to render through Tractor.
- AMS Integration: Integrated AMS to manage artist task assignments, bidding, and task descriptions, improving task tracking and resource allocation.
- Improved Pipeline Efficiency: Boosted pipeline adaptability and performance across multiple show environments, ensuring smoother workflows, reduced resource consumption, and faster turnaround times.

Junior Software Developer   📅 06/2015 - 02/2018

Infosys   📍 Mysore, India

Digital services and consulting

- Developed Reservoir Simulation Application: Contributed to an integrated reservoir simulation application for an International Oil and Gas Major, modeling oil and gas production from wells and reservoirs using geological and simulation data.
- PySide2 Front-End Development: Designed and built an intuitive PySide2-based front end for result visualization, incorporating interactive tables and a variety of dynamic plots for in-depth data analysis.
- Data Processing & Simulation: Implemented methods to read and process geological data provided by geologists and geophysicists, enabling simulation algorithms to predict production outcomes accurately.

EDUCATION

Bachelor of Technology   📅 06/2011 - 05/2015

Kongu Engineering College (Anna University)   📍 Erode, India

PROJECTS

Movies worked on:1917, New mutants, call of the wild (silhouette/nuke based roto prep workflows)

Movies worked on: pre-historic planet (python2 to 3 migration), Leo, RRR , Space Man (new handled show delivery issues), Mufasa (multiple environment management nuke12, 13, 14 and nuke studio)

WHY AM I THE BEST FIT?

⚙ **Extensive experience in 2D VFX**

Led complex Nuke and Python3 migrations, optimized pipelines, and enhanced multi-show workflows, driving efficiency and future-proofing VFX environments

📖 **Certificates**

Achieved TensorFlow Developer
Agentic AI (In Progress)

⭐ **AI Enthusiast**:

Certified TensorFlow developer, proficient in **PyTorch**, **Keras**, **scikit-learn**, **XGBoost** API
Actively practicing Kaggle competitions with foundational knowledge in NLP, Langchain, and RAG.

💡 **Quality Assurance:**

Delivering high-quality results through rigorous **Quality Assurance** practices, including comprehensive **unit test cases**, adherence to **SonarQube** analysis, and compliance with **PEP8** standards, ensuring code reliability, maintainability, and seamless integration within complex VFX pipelines.

SKILLS

DCC	Nuke
NukeStudio	Silhouette
FrameWorks	PySide
Scikiit-Learn	PyTorch
Keras	LangChain
Streamlit	Gradio
Languages	Python
C++	