

Franklin Moses Mahendra Ruban

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Willing to relocate: Anywhere

Work Experience

Computer Vision & Deep Learning Engineer

Reflective ai - Remote

September 2020 to July 2021

- Developed a novel proprietary worker count system with custom color tags using computer vision to monitor workforce and analyse work progress to increase productivity on construction sites.
- Developed an Automatic License plate detection and Recognition pipeline for yard management.
- Worked on a novel proprietary camera calibration system for Physical distancing due to COVID-19.
- Developed a Data Visualization pipeline with filter constraints for annotated data that are stored in the cloud instances. This helps quickly analyse data of each category reducing the time taken to create a model .
- Maintained dockerized applications on cloud with auto scaling and load balancing to handle bulk API requests.
- Developed an auto-annotation pipeline for images using Deep learning. This effectively reduced our time for the initial model production by 60%.

Computer Vision & Deep Learning Intern

FaceX - Bengaluru, Karnataka

November 2019 to January 2020

- Worked on Overhead Footfall counter for retail customer experience. Object Tracking were implemented using a proprietary Optical flow algorithm which improved the accuracy of tracking.
- Edge deployment of footfall counter pipeline using Jetson Nano, Google Coral dev board and Raspberry-pi with google TPU and with relevant Optimizations for the models accordingly.
- Worked on Spoof, Age and Gender detection to analyse retail customer behavior. Facial Recognition, Searching and

Tracking were few highlights of this application that were implemented.

Image Processing & Video Analytics Intern

Origa Labs - Bengaluru, Karnataka

May 2019 to July 2019

- Worked on a novel proprietary system for product detection and Unique ID tracking using tracking through occlusions using Kalman filter based custom Sort algorithms for realtime tracking and advanced deepSort based tracking for higher accuracy.
- Worked on safety systems to detect compliances of hardhats and high visibility vests.
- Developed Motion Detector for Human and activity based ROI to analyse work done or human safety alerts for mobile machineries.

Education

Masters in Computer Engineering

University of California - Riverside, CA

May 2023

Bachelor of Technology in Computer Science

Kalinga Univeristy - Raipur, Chhattisgarh

June 2016 to May 2020

Skills

- C
- C++
- Python
- R
- Javascript
- HTML
- MATLAB
- Shell
Developer Tools: Git
- Docker
- AWS
- CVAT
- MySQL
Libraries & FrameWorks: OpenCV
- ROS
- Tensorflow
- Pytorch
- Keras
- TensorRT
- Flask
- ReactJS
Hands-on Device: Nvidia Jetson Nano
- Google Coral Dev Board & TPU
- Raspberry Pi
- IP Cameras
- IMX Cameras
- SQL
- Linux
- Bootstrap
- Computer Science
- XML

- GitHub
- Machine Learning
- Image Processing
- Deep Learning
- Scripting
- Java
- Software Development
- Microsoft SQL Server
- REST

Languages

- English - Expert
- Tamil - Expert

Links

<http://github.com/MFranklinMoses>

<http://linkedin.com/in/franklinmoses>