



# Yogesh Nain

## Senior Software Engineer

nain21t@gmail.com ✉

9650686261 📞

New Delhi, India 📍

linkedin.com/in/nainyogesh in

github.com/yogeshnain 🐙

Well-versed computer vision engineer with 5+ years of experience in deep learning and computer vision. Passionate about learning and implementing automation systems, interested in robotics and reinforcement learning.

## WORK EXPERIENCE

### Senior Software Engineer UnitX

02/2021 - Present

Kaust, Saudi Arabia

#### Achievements/Tasks

- Develop and deploy deep learning based models on client using AWS and Azure
- Successfully completed POC for safety gear detection for one of largest oil company in world
- Integration of models with back-end API
- Improved accuracy of face recognition system by 10% in dark light

### Senior Software Engineer Kritikal Solutions Pvt. Ltd.

12/2020 - 02/2021

Noida, India

#### Achievements/Tasks

- Implementation of new research papers
- Completed POC for Image resolution improvement for gov project
- Handling pre-sales meetings with client for requirement analysis
- Provide feedback on solutions for client need

### Assistant Manager HFCL

02/2016 - 11/2020

Gurgaon, India

#### Achievements/Tasks

- Design and developed ANPR system from scratch for Indian number plates
- ANPR deployed in 4 smart cities and many government controlled environments
- Development of solutions related to video analytics for smart cities
- Optimisation of solution to run on legacy hardware

## SKILLS

C/C++

Python

Flask

Machine Learning

PyTorch

Tensorflow

Pandas

Deep Learning

Matplotlib

## PROJECTS

### Face Recognition (06/2021 - Present)

- Face recognition using simple cctv cameras
- Increased recognition accuracy by 10% in dark

### Queue and distance monitoring system (05/2021 - 06/2021)

- Developed queue and social distance monitoring system
- Real time alerts for defaulters
- Implemented for running on embedded systems

### Safety Gear detection (02/2021 - 05/2021)

- Developed flask API to run using AWS
- Real time alert for violators
- Implemented custom tracker for better accuracy
- Dockerize of whole package

### Video Analytics Solution (01/2018 - 10/2018)

- Developed complete video analytics solution with real time alert and notification mechanism
- It was developed for cross platform - windows and linux
- Different analytics implemented related to object detection, object counting, object classification, object tracking etc
- Solution designed to run on both GPUs as well as CPUs

### ANPR System (02/2016 - 09/2016)

- Design and developed ANPR solution from scratch
- Improved number plate detection accuracy by 60% for non standard number plates
- Optimised solution to run on legacy hardware with better efficiency and utilisation

## EDUCATION

### B.Tech in CS Skyline Institute Of Engineering And Technology

06/2010 - 07/2014

Greater Noida

## INTERESTS

Reinforcement Learning

Robotics

Autonomous Vehicles

NLP

Reading Books

Video Games