

Arun Ponnusamy

Senior Computer Vision Engineer

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Chennai.

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github.com/arunponnusamy

Skills

I am passionate about Image Processing, Computer Vision and Machine Learning.

Some of my key skills include C/C++, Python, Keras, TensorFlow, OpenCV, dlib, OpenCL, CUDA, Matlab/Octave, Assembly/Intrinsics, CMake, Make, Git, Linux CLI.

Experience

1000Lookz / Senior Computer Vision Engineer

JAN 2018 - PRESENT, CHENNAI

I am currently working on virtual try on technology and recommendation engine for eyewear products. It's great to see your work ending up in a real product which will be in the hands of potentially tens of thousands of people.

Most of my works are around head pose estimation, face analysis, image classification and object detection.

MulticoreWare Inc. / Software Engineer

JULY 2014 - DEC 2017, CHENNAI

I have completed 3.5 years at MulticoreWare. It has been a great journey and a great learning experience. I have gained a lot of exposure.

Most of my works are around image processing, computer vision, parallel processing, software optimization and porting.

Education

PSG College of Technology / Bachelor of Engineering

JULY 2010 - MAY 2014, COIMBATORE

The 4 years I have spent here have been the most influential part in my life. It shaped me as a person and responsible for who I am today. I am grateful for the opportunity that I got to study here.

I have a CGPA of 8.42 in **Electronics and Communication Engineering**. Digital Electronics, Embedded Systems and C Programming are my favourite subjects.

Notable Efforts

Served as one of the Joint Secretaries of Institution of Engineers(I) (students' chapter) of PSG College of Technology.

Secured first place in Line Tracer Event in Kriya '13, a Techno management fest conducted by Students Union of PSG College of Technology.

Actively participated in FIRST Tech Challenge, a robotic competition, conducted by Caterpillar India.

Official writer at [Towards Data Science](#) (online publication) covering Computer Vision and Machine Learning.

Courses & Certifications

[Practical Deep Learning for Coders - Part 1 \(2018\)](#) from [fast.ai](#), taught by *Jeremy Howard* and *Rachel Thomas*.

[Convolutional Neural Networks](#) from [deeplearning.ai](#) taught by *Prof. Andrew Ng*.

[Machine Learning](#) from [Stanford University](#) taught by *Prof. Andrew Ng*.

[Heterogeneous Parallel Programming](#) from [University of Illinois](#), taught by *Prof. Wen-Mei Hwu*.

Personal Projects

cvlib

A high level easy-to-use open source computer vision library for Python. (published as a pip installable python package)

[cvlib.net](#)

Real-time Gender detection using deep learning

Gender detection (from scratch) using deep learning with Keras and cvlib in Python, capable of running on both images and real-time input.

[github.com/arunponnusamy/gender-detection-keras](#)

Computer Vision Blog

A blog on image processing / computer vision / machine learning with simple and accessible posts with source code and intuitive explanations.

[arunponnusamy.com](#)

Interests

Reading, writing, watching sensible movies, watching educational videos on YouTube, doing interesting MOOCs, listening to music and podcasts, exploring new places.