



**Vignesh Sankaran**

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## EDUCATION

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<b>Madras Institute of Technology Campus, Anna University</b> Chennai, TN, India	
MS (by Research) Information and Communication Engineering; CGPA: 8.5/10.0	Dec. 2014 - Dec. 2017
<b>K S Rangasamy College of Technology</b> Namakkal, TN, India	
Bachelor of Technology in Information Technology; CGPA: 8.52/10.0	June 2011 – May 2014

## Professional EXPERIENCE

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<b>Pentafox Technologies Private Limited</b>	<b>Coimbatore, TN, India</b>
CEO & Co-Founder	Aug. 2019 till date.
<ul style="list-style-type: none"><li>- Co-Founded a product solutions startup and established strategic IT partnerships with various startups and NBFC institutions. Built a team of 25+ from ground-up to Design, Develop and Deploy cloud agnostic solutions for various businesses.</li><li>- Built and delivered 75+ small, medium and large-scale projects from startups to enterprises.</li><li>- Enabled Pentafox Technologies to build partnerships with various enterprises for CloudOps and DevOps support on multi- cloud platforms.</li></ul>	
<b>Quantiphi Analytics Solution Private Limited</b>	<b>Bengaluru, KA, India</b>
Senior Platform Engineer	Nov. 2018 - July 2019
<ul style="list-style-type: none"><li>- Streaming Solutions: Involved in design and development of cloud architectures on AWS for Walt Disney Parks Resorts, comprising of managed services like Kinesis, Lambda, S3, Glue, Data Catalog and DynamoDB.</li><li>- Deep learning Inference Pipeline: Designed and developed real time inference pipeline for processing live video streams with processing capacities for deep learning models like YoloV3, Detectron, TensorFlow API's etc., using services on Google Cloud Platform for Walt Disney Parks Resorts. Extensively explored and experimented on TensorRT inference server, Deep Stream 3.0 SDK as part of the project.</li><li>- MLOps Framework: Built a team from ground-up to design and deploy state-of-art MLOps framework that provides 20+ ML and DL models with capacity to auto deploy required platform services on AWS with pipeline orchestration using Airflow and built-in model governance to reduce the time taken by an ML Engineer to build a POC.</li></ul>	
<b>Striim Engineering Services (P) Limited</b>	<b>Chennai, TN, India</b>
Software Engineer (JAVA) & Infrastructure Admin (AWS, Azure, GCP)	Feb. 2017 - Oct. 2018
<ul style="list-style-type: none"><li>- Streaming Integration: Involved in development of adapters that could integrate data from different data sources to cloud based data targets like Amazon RedShift, Google BigQuery, Azure SQL Data Warehouse with ability of data recovery.</li><li>- QA Automation - TestNG: Developed Integration testing module for QA Team using 'TestNG' and was involved in Jenkins deployment on EC2. Designed and contributed to System Testing topology mimicking large customer scenarios with TPC-H/TPC-C benchmarks.</li><li>- AWS Infrastructure Administration: Setup various software infrastructure over EC2 like Hadoop, Hive with Tez, Kafka, Cassandra, Postgres 9.6 EDB, Kudu, Schema Registry and MongoDB for multiple proof of concepts for various enterprise clients.</li></ul>	
<b>Pentafox Technologies (P) Limited</b>	<b>Chennai, TN, India</b>
CEO & Co-Founder	Jan. 2016 - Jan. 2017
<ul style="list-style-type: none"><li>- Involved in development of 30+ web applications and mobile app for small and medium tier businesses in India, US, UK, APAC, ANZ markets using various frameworks like FastAPI, Flask, Node.js, WordPress, OpenCart and Bootstrap.</li></ul>	
<b>Babha Atomic Research Centre - Madras Institute of Technology</b>	<b>Chennai, TN, India</b>
Junior Research Fellow and Research Scholar	June 2014 - Dec. 2016
<ul style="list-style-type: none"><li>- Junior Research Fellow - 'Face recognition system with Video Analytics': Developed a Face Recognition system in Video and person retrieval engine in live video streams using Dlib, OpenCV &amp; WxWidgets as part of Department of Atomic Energy-BRNS (Govt. of India) funded research project.</li></ul>	

## PROJECTS (ACADEMIA)

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### **Face recognition system in video with Video Analytics (MS Thesis)**

A software encompassing Face based recognition system and real time person search on large video logs. The project involves extensive use of Computer vision and Machine learning algorithms for feature extraction, dimensionality reduction, classification, recognition and search space reduction.

### **Resume search engine with an intelligent recommender system (B. Tech Thesis)**

The project deals with extracting, analyzing and storing large amounts of resumes (Unstructured data) from applicants into a structured dataset using a Cumulative weight-keying system.

## SKILLSET

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Languages	: Python 3, Java 8, Bash
Frameworks	: FastAPI, Flask, Uvicorn, Gunicorn, Nginx, Apache
Cloud Services	: Hands-on with AWS (40+ services), GCP (25+ services), Azure (10+ services)
Technology Domain	: Computer Vision (Anomaly Detection, Biometrics, Document Processing, Data lake, Machine Learning Inference pipelines, MLOps, DevOps, SaaS, PaaS, IaaS)
Databases	: MySQL, Oracle, PostgreSQL, Amazon Redshift, Azure SQL Datawarehouse, Aurora DB
Tools	: Docker, Jenkins, Terraform, Kubernetes, DVC, Git, Maven, Eclipse, VS2017, BitBucket, Scikit, PyCharm

## PUBLICATIONS

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- Vignesh S, Sweetlin Hemalatha, Vaidehi, V, Shree Nandhini, Sharmi, S, Lavanya & Vasuhi S, 'Symmetric Uncertainty based Search Space Reduction Framework for Fast Face Recognition', IJIT 2018.
- Vignesh S & Vaidehi, V, 'Unimodality of MBType Frame Different metrics for efficient Key Frame Extraction', ICSCN 2017, MIT Campus, Anna University, Chennai.
- Sinha, A, Kumar, BL, Ashraf, J, Vignesh, S & Vaidehi, V 2015, 'Content based person retrieval from video using forward backward frame check algorithm', ICoAC 2015, MIT Campus, Anna University, Chennai.
- Mohanraj, V, Vaidehi, V, Vignesh, S, Vanitha, A, Suganya, P, Vashui & Ranjithkumar, S 2015, 'Robust Face Recognition in Video under Pose and Illumination Changes', GCMT 2015, Chennai.