Vignesh Sankaran

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EDUCATION

- **Madras Institute of Technology Campus, Anna University** — Chennai, TN, India
  MS (by Research) Information and Communication Engineering; CGPA: 8.5/10.0 — Dec. 2014 - Dec. 2017

- **K S Rangasamy College of Technology** — Namakkal, TN, India
  Bachelor of Technology in Information Technology; CGPA: 8.52/10.0 — June 2011 – May 2014

EXPERIENCE

- **Pentafox Technologies Private Limited.** — Bengaluru, KA, India
  Co-Founder & CEO, Cloud Platform Engineer — Aug. 2019 till date.
  - **Cloud Solutions**: Co-Founded a product solutions startup and stabilized it as IT partner for multiple startups and NBFC institutions. Worked closely with a 5 member team to Design, Develop and Deploy cloud agnostic solutions for various business use cases.

- **Quantiphi Analytics Solution Private Limited.** — Bengaluru, KA, India
  Senior Platform Engineer — Nov. 2018 - July 2019
  - **Streaming Solutions**: Involved in design and development of cloud deployment architectures on AWS for Walt Disney Parks Resorts, to integrate various cloud services like **Apache Kafka, Lambda, Spark, Amazon RedShift, DynamoDB and HDFS**.
  - **Deep learning Inference Pipeline**: Designed and developed real time infrence pipeline for processing live video strems through complex deep learning models like YoloV3, TensorFlow API's, Microsoft Baseline mpodels etc., through services on Google Cloud Platform for Walt Disney Parks Resorts. Also worked on **TensorRT inference server, DAC, Deep Stream 3.0 as part of the project**.

- **Striim Engineering Services (P) Ltd.** — Chennai, TN, India
  Software Engineer (JAVA) & Infrastructure Admin (AWS, Azure, GCP) — Feb. 2017 - Oct. 2018
  - **Streaming Integration**: Involved in development of adapters that could integrate data from different data sources to different cloud based data targets like **Amazon RedShift, Google BigQuery, Azure SQLDataWarehouse** with ability of data recovery.
  - **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 topologies mimicking large customer scenarios using **TPC-H/TPC-C** benchmarks.
  - **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 proof of concepts based on customer requirements.

- **Babha Atomic Research Centre - Madras Institute of Technology** — Chennai, TN, India
  Junior Research Fellow and Research Scholar — June 2014 - Dec. 2016
  - **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 & WxWidgets** as part of Department of Atomic Energy-BRNS (Govt. of India) funded research project.

- **Pentafox Technologies (P) Ltd.** — Chennai, TN, India
  Co-Founder/Developer — Jan. 2016 - Jan. 2017
  - **Websites**: Involved in development of websites as Full-stack developer (www.venuetiger.com, www.healthicket.com, www.msaaw.in, www.lineofthought.in, www.pentafox.in, www.issproperties.com, www.intexspacesolutions.com, www.ebloodshare.com, www.journeymile.com, www.aakkanna.com) using various frameworks like Node.js, Express, Mongoose, Wordpress, Opencart and Bootstrap.
  - **UI/Logo Designing**: Designed UI for various website development projects using Adobe Illustrator.

Projects (Academia)

- **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, analysing and storing large amounts of resumes (Unstructured data) from applicants into a structured dataset using a Cumulative weight-keying system.

Skillset

- **Languages**: Java, Python, Bash

- **Technologies**: Kafka, Kerberos, Jenkins, Terraform, OpenCV, Deep Learning (CNN/RNN - TensorFlow)

- **Databases**: Oracle, MongoDB, Amazon Redshift, Azure SQL DataWarehouse, SnowFlake, AuroraDB

- **Toolsets**: Docker, Git, Maven, Eclipse, VS2017, BitBucket, Scikit, PyCharm

Areas of Interest

- Machine Learning, Computer Vision, Cloud Engineering

Publications

- **Vignesh S**, Sweetlin Hemalatha, Vaidehi, V, Shree Nandhini, Sharmi, S, Lavanya & Vasuhi S, 'Symmetric Uncertainty based Search Space Reduction Framework for Fast Face Recognition', IJIIT 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.