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# Ethiraj Srinivasan

## Data Engineer

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## EXPERIENCE

### **Lomotif, Singapore** - *Data Engineer*

FEBRUARY 2019 - PRESENT

**Stack** - *Python, Spark, Flask, Docker, Kubernetes, Redis, Elasticsearch, Postgres AWS - Kinesis, lambda, EMR, Athena, Quicksight, S3*

- Developed and deployed recommendation engine for feeds and followers
- Built a data lake by dumping real time data from various sources into S3 using kinesis, lambda and EMR(spark)
- Develop and Monitor jobs on EMR(pyspark) for various business use case
- Built dashboards on Quicksight using Athena as the query engine
- Discovered community and influencers in social network using graph analysis
- Identify and develop metrics to rank videos
- Clustered users and videos based on business use case

### **Knorex, Singapore** - *Big Data and Analytics Engineer*

MAY 2018 - JANUARY 2019

**Stack** - *Spark, Scala, Vertx, MongoDB, AWS - Kinesis, Lambda, S3*

- Migrated ad events tracker to Vertx 3 and optimized the throughput using Kinesis and Lambda architecture
- Built Reporting Analytics tool on Spark with Scala to determine attributions and generated aggregated data for visualisation

### **Trakomatic, Singapore** - *Internship*

DECEMBER 2017 - MARCH 2018

**Stack** - *Python, Django*

- Developed Data Management and Annotation tool for Facial Recognition Application

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## **Pramati Technologies, India** - *Senior Software Development Engineer*

AUGUST 2015 - DECEMBER 2016

### **Stack** - *Ruby on Rails, Memcached, Redis, Solr, Postgres*

- Involved in the development of web application for patents and built a content management application where content was manipulated, authorized and accessed based on roles.
- Responsible for conducting Open Source Meetup

## **Tata Consultancy Services, India** - *Assistant System Engineer*

JANUARY 2014 - JULY 2015

### **Stack** - *Ruby on Rails, Memcached, Redis, Solr, Postgres*

- Lead the development of a collaborative platform used to share the content, idea and process among group of companies

## **EDUCATION**

### **National University of Singapore , Singapore** - *M.Tech Software Engineering*

JANUARY 2017 - APRIL 2018

- Built an avatar based open domain conversational chatbot with facial recognition(Dlib) feature to engage the visitors.
- Developed Deep Learning (Computer Vision) model to diagnose lesions suspicious of malignancy in mammogram images.

### **Anna University , India** - *B.E Electronics and Communication*

SEPTEMBER 2009 - MAY 2013

## **AWARDS**

- Winner - Hackathon - DNA Capitals, Singapore
- Star of the Learners group - Tata Consultancy Services
- On the Spot Award - Tata Consultancy Services

## **RECOGNITION**

- Collaborator - Sunspot (Apache Solr) gem
- Guest of honour - Outcome Based Industry 4.0 at Sri Venkateswaraa College of Technology

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## PROJECTS

### Machine Learning

- Relay Activation using Facial Recognition system - Raspberry pi controlled relay is activated by flask based facial recognition system.
- Spatio -Temporal Analysis of Students' Travel - The objectives of this project were to provide helpful information about facilities near their home or travel routes such as nearby restaurants/Hawker centers, Shopping Mall using Geofencing, Hot Spot Analysis , Cluster and Outlier Analysis. The application was built using R Shiny and leaflet.js

### Web Applications

- Tablizer – Application to scrape tables from either external URL or HTML input to CSV.
- CSS To Inliner – Application to combine HTML and CSS to HTML with inline styles.

## CERTIFICATIONS

- Elasticsearch 7 and the Elastic Stack - In Depth & Hands On!
- Docker and Kubernetes: The Complete Guide
- The Complete Hands-On Course to Master Apache Airflow
- Scala and Spark for Big Data and Machine Learning
- The ultimate hands on hadoop tame your big data
- Data Engineering on Google Cloud Platform Specialization
- Machine Learning by Stanford University on Coursera
- Complete Guide to TensorFlow for Deep Learning with Python

## OPEN SOURCE CONTRIBUTIONS

- collection2csv
- devise-foundation-views
- rails-fort
- rails-protip
- table2csv
- Technology-icons