
Ethiraj Srinivasan

Expert Data Engineer

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EXPERIENCE

Shopee, Singapore - Expert Engineer

JUN 2020 - PRESENT

Stack - Spark, Spring Boot, Ruby on Rails, Python, kafka, Redis, Docker, Hadoop Ecosystem

Lomotif, Singapore - Data Engineer

MAY 2019 - MAY 2020

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

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

- Value Star Award - Shopee, Singapore
- 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

TALKS

- Guest of honour - International Conference on Computer communication & Power systems - ICCCPs 2020
- Guest of honour - Outcome Based Industry 4.0 at Sri Venkateswaraa College of Technology
- Resource Person -Faculty Development Program On Artificial Intelligence For Robotics (AICTE Training and Learning (ATAL) Academy) at Sai Ram Engineering College

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