Sai Raman Kilambi

Innovator, Mentor, and Programmer with nearly 3 years of experience in building scalable software products. Successful at managing teams, driving project milestones, and on-time delivery. Distributed systems and Deep Learning research enthusiast.

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(Click to visit profile)

WORK EXPERIENCE

Berkadia, Hyderabad, India — *Software Engineer*

Roles: Associate Architect, Technical Research Representative

Research & Development Team   (**Jan 2018 - PRESENT**)

- Researched and Implemented **Financial Document Detection** using **Recurrent Neural Networks**.
- Solved **KAFKA rebalancing error** by implementing handlers to reconnect to the master broker.
- Implemented **Database migration scripts** to migrate data to a new architecture with **Zero downtime**.
- Co-Designed and implemented reusable microservices adopting **CQRS & Event Sourcing architectural patterns**.
- Reduced the bundle size of Angular project by 30%, through implementing **tree-shakable** modules
- Introduced **Multi-stage Docker Build** approach thereby optimizing the **production** docker image size by ¼
- Optimized global search feature by reducing network calls and optimizing queries (**Response time minimized by 10%**)
- Configured YAML configurations in **Kubernetes** for microservices.
- Leader - Angular, NodeJS Community of Interest groups.

EDUCATION

Vardhaman College of Engineering (Jawaharlal Nehru Technological University)

Hyderabad, Telangana, India   2014 - 2018

— **B. Tech,** *Computer Science and Engineering*

CGPA: 8.87

Narayana Junior College (Board of Intermediate)

Hyderabad, Telangana, India   2012 - 2014

— *MPC (Maths, Physics, Chemistry)*   **Percentage: 96.7%**

SKILLS

Languages: C, C++, Java, Python, Javascript.

Frameworks: Angular, NodeJS, React, JQuery, Tensorflow, Keras, PyTorch

Databases: MySql, DynamoDB, MongoDB

Technologies: Docker, Kubernetes, Kafka, Redis

DEVELOPER CONFERENCES - PRESENTED

Problem-Solving with Machine Learning - (Document Classification, Optical character Recognition)

(Polaris Con 2020, Hyderabad, India)

Real-Time Stream Data Processing with Apache Spark

(Polaris Con 2019, Hyderabad, India).

Feature Toggling and Git hooks

(Polaris Con 2018, Hyderabad, India)

ACTIVE RESEARCH AT ORGANIZATION:

Implementation of Sockets, Snapshotting in Microservices Architecture (CQRS & Event Sourcing)

Financial Document Classification using Recurrent Neural Networks.

Auto-complete Financial Document Analysis using supervised learning

PROJECTS

Wiki me — *Chrome Extension*

A chrome extension that searches for the highlighted text in WIKIPEDIA.

COVID 19 Detection from X-RAY – Deep Learning Model using Convolutional Neural Networks

A deep learning model is based on Convolutional Neural Networks which determines whether a given X-Ray is COVID19 positive. Developed using Python, Tensorflow, and Keras.

Human Face Mask Detection – Deep Learning Model using Convolutional Neural Networks

A deep learning model is based on Convolutional Neural Networks which determines whether a person is wearing a mask or not. Developed using Python, Tensorflow, and Keras.

Student Grade Prediction – Machine Learning Model

A machine learning project that uses both Naive Bayes and Decision Tree algorithms to predict the grade of a student.

Technologies: Python, Scikit-learn, pandas, matplotlib

Multi-Broker Dockerized Kafka –Proof of Concept

A dockerized application demonstrating multi-broker Kafka. The application can be configured to use a specified number of master and broker nodes.

Professional Website – Online Portfolio

A professional online portfolio website designed using HTML, CSS, Javascript, and Bootstrap.

Games – Classic Snake, Tennis, Maze Generator

Games developed using HTML, CSS, Javascript, and P5.js

JSON Web Tokens – Proof of Concept

A simple NodeJS application demonstrating the use of JSON Web Token (JWT) for security in backend services.

* Please click on the links to navigate to the projects.

CERTIFICATIONS

Microsoft Technical Associate – Software Fundamentals

Deep Learning – Image Recognition (LinkedIn)

Tensorflow in Javascript (LinkedIn)

Python for Data Science (Data Camp)

Machine Learning Essential Training – Value Estimations (LinkedIn)

Angular Certification (HackerRank)

Python Certification (HackerRank)

Problem Solving (HackerRank)

SQL Fundamentals (SoloLearn)

AWARDS & ACTIVITIES

Won "HIFI – Employee of the Month" award 3 times (at Berkadia)

BEST OUTGOING STUDENT –2018, Computer Science, Vardhaman College of Engineering

1st Place during Hackathon at Polaris Con – 2020 developer conference.

Functioned as Class Representative for 2 years (2016-18)

Participated in Zonal programming contest conducted by IIT BOMBAY

Functioned as Event Manager for student body "CETA" and organized programming events and contests

NOTE: Please visit sai-raman.github.io for a comprehensive list of my latest projects