

# 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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Portfolio: [sai-raman.github.io](https://sai-raman.github.io)



(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 1/4
- 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 / 10

### 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 :

Implementation of Sockets, Snapshotting in Microservices Architecture (CQRS & Event Sourcing) - [Click to Read](#)

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.

## 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](https://sai-raman.github.io) for a comprehensive list of my latest projects

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