GANESH Y JOSHI

SOFTWARE CLOUD AND AI ENGINEER

CONTACT

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📍 229/30 M. G. Road Camp, Pune-411001

SKILLS

1] Virtualization Technologies:
i) EC2
ii) Distributed AI training over tensorflow
iii) Containerized Scaling
iv) Docker & Kubernetes

2] Storage and Network solution:
i) S3 / Minio
ii) Single Replication
iii) Leaderless replication and auto scaling
iv) Riak Consensus Algorithm
v) System Design
vi) Message Brokers
v) CAP Theorem
vi) Caching (write through & write in)

3] Project Management
i) Agile Skills

4] IaC Skills
i) Terraform

5] Security Management Skills
i) DDoS security using TokenBucket
ii) Authentication & Authorization using JWTs
Session Tokens

6] AI development
i) Keras

7] Networking protocols
i) TCP & UDP
ii) Http and REST
iii) SSH, SMTP, SFTP

8] Programming Skills
i) Java
ii) Python
iii) Asynchronous Programming
iv) Multithreading Management & Lock Management

Python ▬▬▬▬▬▬▬▬▬
Java ▬▬▬▬▬▬▬▬▬

PROFILE

A passionate software developer with wide variety of skills and experience in different modern technologies for the development of the software & cloud architectures. Having impeccable record of delivering on promises and projects using the modern technologies like Docker, Kafka & many other. Having skills in Java and Python programming language for the development and deployment of the AI applications at scale using distributed training and computing.

WORK EXPERIENCE

IBM GRM Intern

IBM   February 2024 - June 2024

- At IBM I was responsible to build solution for the deaf and dumb community for sign language to English conversion based on the wearable solution on the Android platform and AI solution.
- We used a number of modern technologies like
- Sensor technology over Android
- Kafka
- Keras based on LSTM sequence to sequence encoder-decoder
- At IBM we also submitted a research paper for our solution
- In this project I developed the solution based on the MQTT architecture over Kafka and also developed AI model based on the partial sequence selection over LSTM and sequence to sequence encoder decoder.
- We also took care of the web level security with the implementation of
- DDoS protection using Token Bucket
- Consensus Management using Raft implementation
- JWT authentication
- Docker as our deployment engine

Marketing Intern Jayshree Trading Co.

Jayshree Trading Co.   2020-2022

- At Jayshree Trading Co. I worked as a marketing intern and electrical product consultant. I was tasked to engage with customers to sell home appliance.
- The following internship gave me opportunity to understand Indian Market and also to communicate with a number of company executives to not only understand products and distribution network.
- Skills earned:
- Customer Management
- Distribution Network
- Marketing products
- Complaint Management
- Finance Management
- Business Development

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EDUCATION

- Vishwakarma Institute of Information Technology
  B. Tech Computer Engineering
  Current CGPA 8.95

- Nowrosjee Wadia College
  XII HSC - 84.67

- The Bishop's School
  X ICSE - 96.4

COURSES

- Infosys Spring Board Introduction to the Data Science & Machine Learning

- Cousera Google UX design

PROJECTS

Rich Pipe

- A simple and extensible data manipulation pipline for data manipulation purposes and ETL workloads, It provides a simple & clean process of manipulating data by providing builder design pattern for the 90+ data operations like data cleaning, data normalization, data normalization, grouping and aggregation.
- Built over Python and Pandas DataFrame, can be used in wide variety of processes like Batch Processing, Data Manipulation and Data Cleaning and Data Normalization.
- Open Source
  Repository: https://github.com/Ganesh-Y-Joshi/RichPipe

  Domains served:

  i) AI
  ii) Batch processing & Data Manipulation

iJWT:

- JWT algorithm implementation from scratch in python, as most of the other implementation didn't supported the payload encryption which at most time lead to the security vulnerability, therefore I built the above project for including compulsory payload encryption.
- JWTs are used in a token based authentication and security. It replaces the earlier session based authentication to be stateless and efficient.
- Open Source
  Repository: https://github.com/Ganesh-Y-Joshi/iJWT

  Domains served:

  i) Web Security
  ii) Authentication

RBI Hackathon

- I took part in RBI hackathon with the problem statement of developing solution for the currency note visualization for the visually impaired people.
- To tackle this problem statement, I developed a Home Screen Launcher app based on the Microsoft's White Paper describing the home screen launcher apps.
- Basically using the voice based navigation and powerful AI model, MobileNetV2 I was able to developed the solution.
- I also used OCR based technologies to develop my solution.

  Domains served

  i) Android
  ii) Home Screen Launcher app