FAITH KAMARAJU

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ABOUT ME

- I'm a recent University Master's graduate looking for a job as a software developer.

- I am experienced in Fullstack/ML based solutions with the ability to own the product and make sure all requirements are met by having frequent communication with the stakeholders.

- I'm open to learning any new tech stack if the job requires it and I'm quite a fast learner with good attention to detail.

SKILLS

Languages	Python, JavaScript, Typescript, SQL, Java, C++
Inference Engines	vLLM, Aphrodite-engine
Backend Tools	FastAPI,Flask, SQLAlchemy,
Front-end Tools	ReactJS, NextJS , Plotly-Dash
Databases	PostgreSQL, Elasticsearch
Containerization and Orchestration	Docker, Docker-Compose, Kubernetes, K3S

EXPERIENCE

Ericsson Global Artificial Intelligence Accelerator (GAIA), India   June 2021 - August 2023
SDE I

- Part of a 4-member team tasked with implementing a **Document Similarity Search** for error logs from Telecom network nodes using a **Retrieval and Re-ranker** system based on sentence transformers.

    – Owner of a full-stack app with an **Elasticsearch DB** for storing embedded documents, a **FastAPI** backend that provides REST API for the document similarity search function and a simple **ReactJS** frontend. The app connects to an internal database service with pre-existing REST API to retrieve the error log data.

    – Containerized the app's individual components and pushed them to company private registry.

    – Created the proper **deployment, statefulset, secret, configmap and service objects** to deploy the whole stack on an Internal Ericsson **K8s cluster**.

- Part of a 6-member team tasked with implementing an **Automated Blackbox OpenAPI v3 Compatible REST API Testing Tool** in python based on an original paper - https://ieexplore.ieee.org/document/9159077

    – Owner of the "Mutated Error Tester" component (final stage in the REST API testing pipeline).

    – Implemented a simple **Plotly-Dash** application for a Proof-of-Concept prototype for shareholders.

    – Implemented a CLI tool for the final production version on the request of the shareholders.

FEATURED PROJECTS

News Aggregator With Bias Analysis Github Repo

A small web-service for a customized news feed that provides LLM powered Biased Language Analysis

- This web-service is deployed on my self-hosted homelab K3S 2-node cluster.

- It has a **NextJs front-end** that interacts with the **FastAPI web server** to fetch and displays Top news articles of the day and has categorized sections.

- The FastAPI web server:

  - Pulls data from an external API, scrapes full article content using "newspaper3k" and updates the **PostgreSQL database**.

  - Sends the new scraped data to an **vLLM** inference endpoint deployed in the same K3S cluster for Biased Language Analysis. Currently using ***Qwen2.5-14B-Instruct-AWQ-Int-4***.

- The **PostgreSQL DB** stores all the article content, inference results, scrapped content and user settings (included and excluded news domains, api limits, api-keys,etc).

Pose Generator Web App for Sketching Practice Github Repo

A small 3D model viewer that has a library of poses to choose from, for sketching practice

- Just a teeny little web app that I use for practicing my form sketches.

- Just some primitive shapes right now because I'm learning how to shade simple shapes.

- I plan to add a selection of 3D models and several poses to practice advanced form practice.

- Check it out on this Render Link

EDUCATION

University of Windsor, Windsor, Ontario *Dec 2024*
M.Eng.(Hons) in Computer & Electronics Engineering

Birla Institute of Technology and Science, Pilani - Hyderabad Campus *Dec 2021*
B.Eng.(Hons) in Electronics & Communication