Yazeed Shamsudeen

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EXPERIENCE

SOTI Inc. (July 2023 - Present)

- **Software Developer I (Full-Stack) |** *Angular, .NET, SQL*
  - Developed and optimized in-house search feature using **Elasticsearch**.
  - Implemented indexing to minimize database query time
  - Implemented dynamic **highcharts** on UI using API-driven aggregation data
  - Wrote clean, maintainable .NET code adhering to **SOLID** principles
  - Led migration effort from legacy system to modern UI
  - Debugged issues in diverse environments using virtual machines
  - Fixed flaky BDDs and added Jasmine unit tests for frontend stability
  - Integrated and managed various NuGet packages for enhanced functionality

TechAtPlay (Sept 2022 - August 2023)

- **Computer Vision Engineer |** *YOLOv5, OpenCV, PyTorch, CUDA, MLFlow, GitHub Actions, GCP*
  - Engineered CI/CD pipeline for automated testing of detection scripts
  - Implemented **GitHub Actions** for pull request-triggered workflow testing
  - Integrated GCP Storage Bucket for scalable test data storage
  - Managed ML models using MLflow for tracking and versioning
  - Optimized CUDA usage for enhanced GPU performance over CPU in detection scripts
  - Annotated images for transfer learning YOLOv5 for **cricket analytics**
  - Worked with **Mediapipe** and **YOLOv8-pose** for batsman and bowler posture detection
  - Customized **YOLOv5** model to analyze shot direction and other performance insights
  - Built FastAPI-based backend to serve detection data to frontend
  - Applied statistical methods and outlier removal for smooth ball trajectory animations
  - Leveraged regression techniques to estimate ball speed

Technologies and Languages

- Python, C#, JavaScript, CSS, HTML
- OpenCV, Numpy, TensorFlow, React, Angular, .NET, Flask, Django, FastAPI, Langgraph
- MLFlow, GitHub Actions, YAML, Docker, Kubernetes, Kafka, RabbitMQ, Redis, AWS, GCP

EDUCATION

GOVT. RAJIV GANDHI INSTITUTE OF TECHNOLOGY
Bachelor of Technology (**Honours**) in Computer Science with Minor in Electronics and Communication Engineering
GPA: 8.53

BHARATIYA VIDYA BHAVAN *High School*
12th: **95.4%** (CBSE) | 10th: 10 CGPA (CBSE)

PROJECTS

Linux AI Assistant *(RAG, Langgraph, FAISS, Mistral-7B, Linux, Python)* *GitHub*
- Built a **LangGraph**-powered **ReAct** agent for multi-step Linux troubleshooting using reasoning and tool use in a dynamic graph structure.
- Integrated **RAG** with **FAISS** and sentence embeddings to deliver accurate, context-aware responses from a custom Linux knowledge base.
- Optimized performance by adding response caching and applying model fine-tuning, reducing latency and resource usage.
- Enabled full offline functionality by deploying lightweight LLMs and embedded tools, ensuring the assistant ran locally without internet.
- Improved UX with **prompt history**, **session memory**, and **command chaining**, simulating an intelligent Linux-native AI assistant.

BiteBoard *(React, Tailwind, Django, PostgreSQL, Nginx, Redis, GCP, JWT, Gemini API)* *GitHub / Website*
- Designed and developed a mobile-friendly web app using **React**, **Django**, and **PostgreSQL** to help users discover top-rated nearby cafes with most-recommended dishes, leveraging **Google Places API** for real-time location-based search and **Gemini API** for LLM-powered review analysis. Users can add dishes to their wishlist and share it with their friends.

CERTIFICATIONS

- Deep Learning Specialisation, deeplearning.ai <Coursera>
- Machine Learning, Stanford University <Coursera>