Shamsheer Ali Shaik

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SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, HTML, CSS, XML, Chart.js, Rust

Tools: SQL, Neo4j, MongoDB, Github, AWS, Unity, Google API's.

AI/ML: NLP, Vector Search (FAISS), API Integration, DIffusion Models.

Libraries: Keras, OpenCV, Tensorflow, Streamlit, Transformers, SentenceTransformers, LangChain, FastAPI, Pytorch, Django

EDUCATION

Master of Science - Computer and Information Sciences (GPA: 3.63)Oklahoma State University

08/2023 - 05/2025

Bachelor of Technology - Information Technology

RVR & JC College of Engineering

06/2019 - 05/2023

PROJECTS

Snap & Translate: The Language Playground ∅

- Engineered a mobile application using **Unity** and **C#** that captures images via the mobile camera, identifies objects in real-time using **Google Vision API**, and labels each with its name, processing up to 60 images per minute.
- Launched an innovative solution utilizing the **Google Translate API** for translating visual content descriptions automatically into target languages; reduced manual input time by approximately three hours weekly during project development phases.

Art Gallery Database Management System 🔗

- Designed and implemented a robust database system for artwork, artists, customers, and sales management using PHP, MySQL, and XAMPP.
- Elevated data management efficiency by 40% and reduced user errors by 30% with user-friendly interfaces in HTML, CSS, and JavaScript.
- Established secure database connectivity and implemented custom queries and login authentication using XAMPP, significantly enhancing data integrity and access control across the platform.

FinWiseAI: AI-Powered Personal Finance Advisor with Market Sentiment Analysis &

- Built an AI-driven web app using **FastAPI** and **React** to provide personalized financial advice, investment recommendations, and market sentiment analysis, leveraging **flan-t5-large**, **distilbert**, and **Alpha Vantage API** for real-time data.
- Implemented FAISS for vector search of investment options and **Chart.js** for visualizations (budget pie chart, sentiment bar chart), enhancing user experience with interactive data insights.

PROFESSIONAL EXPERIENCE

Gen-AI Researcher 04/2025 – present | USA

Oklahoma State University

- Developed a **conditional diffusion model** in **PyTorch** to predict 512x512 binary deposit morphologies in aerosol jet printing, achieving IoU > 0.8 and F1 Score > 0.89, enhancing process optimization for printed electronics.
- Designed and trained a **U-Net-based** diffusion model with physics-informed penalties, processing **23,367 images** to capture complex AJP features like edge roughness and overspray, improving upon cGAN stability.
- Implemented dataset preprocessing and evaluated model performance using AJP-specific metrics, streamlining manufacturing workflows.

Video Game Development Mentor

Oklahoma State University

Mentored and guided over 20 student teams in the development of video game projects using the Unity Engine and C#.

• Ensured high-quality code and seamless collaboration by overseeing **source code management**, branch strategies, and pull requests for all student projects using Git and GitHub.

Web Developer 07/2022 - 07/2023 | India

PC Control Systems Pvt Lmt.

- Optimized web components using **PHP, JavaScript, and SQL** to boost application performance by 30% and designed front-end features ensuring 100% cross-browser compatibility, enhancing web application load times by 25%.
- Conducted comprehensive unit and integration testing, successfully identifying and resolving bugs, which significantly simplified the UX.

Machine Learning Intern 01/2022 – 06/2022 | India

Indian Servers

- Built and optimized machine learning models using **Keras and OpenCV**, improving classification accuracy by 10%.
- Enhanced **CNN**-based solutions for image recognition and predictive analytics, deploying scalable AI-driven applications that improved classification accuracy by 15%.

LEADERSHIP & INVOLVEMENT

Indian Student Association, Oklahoma State University

08/2024 - 05/2025

06/2024 - 05/2025 | USA

Cultural Secretary

• Led and oversaw a team of 20 members in planning and executing large-scale cultural events and performances, enhancing cultural awareness and ensuring seamless coordination for engaging community experiences at the university.

Make A Difference(MAD) 03/2022 - 06/2023

Academic Support Volunteer

• Enhanced instructional skills by teaching a year-long educational program, delivering impactful lessons and mentoring over 15 students, while fostering a supportive and engaging learning environment that significantly increased teaching effectiveness.

CERTIFICATES

- AWS Academy Graduate AWS Cloud Foundation @
- AWS Educate Introduction to Generative AI &

• The Complete Java Certification Course &

• Complete C# Unity 3D Game Development ∂