Shamsheer Ali Shaik

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EDUCATION

Master of Science - Computer and Information Sciences (GPA: 3.63)
Oklahoma State University
08/2023 – present

Bachelor of Technology - Information Technology
RVR & JC College of Engineering
06/2019 – 05/2023

SKILLS

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

Tools: Web Scraping, Data Splitting, Hadoop, SQL, Neo4j, MongoDB, Eclipse, Github, AWS, Unity, Google API's

AI/ML: Generative AI, NLP, Vector Search (FAISS), API Integration

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

PROFESSIONAL EXPERIENCE

Video Game Development & Database Mentor   08/2024 – present │ USA
Oklahoma State University
- Streamlined **GitHub CLI** repository setup and access controls, conserving over 20+ hours per semester in project management tasks. Oversaw branch management and pull requests for 20+ student projects, ensuring high-quality code and seamless collaboration.
- Advanced understanding of relational databases for 40+ students by introducing data modeling and relational algebra concepts, significantly enhancing their capability to design normalized database schemas by 50%.
- Led hands-on **SQL** workshops and tutorials for 40+ students, empowering them to proficiently manipulate data and implement database solutions using standard programming languages, achieving over 30% improvement in practical SQL skills and database API utilization.

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 over 100 bugs, which significantly simplified the user experience.
- Partnered with cross-functional teams to engineer and deliver tailored web solutions, consistently meeting project timelines and boosting client satisfaction scores by 15%.

Machine Learning Intern   04/2022 – 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%.
- Boosted model performance by 20% using advanced techniques like hyperparameter tuning and data augmentation, ensuring robust outputs.

CERTIFICATES

- AWS Academy Graduate - AWS Cloud Foundation 🔗
- Source Code Management Using Git & Github
- AWS Educate Introduction to Generative AI 🔗
- The Complete Java Certification Course 🔗

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.

GenInsight: Generative AI Analyzer 🔗
- Engineered a **GenAI**-driven web app using **Python**, **Streamlit**, and **LangChain** to analyze news articles and answer user queries on market trends.
- Leveraged **flan-t5-base** for question answering, **SentenceTransformer** for embeddings, and **FAISS** for efficient similarity search, processing real-time news data.
- Utilized web scraping with **UnstructuredURLLoader**, text chunking with **RecursiveCharacterTextSplitter**, and **Pickle** for data persistence, demonstrating strong data handling skills.

CO-CURRICULAR ACTIVITIES

Indian Student Association, Oklahoma State University   08/2024 – present
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.