Zuhair Abdul Haleem

Boca Raton, FL | 561-552-4955 | zuhairhaleem8@gmail.com | Linkedin
Portfolio

EDUCATION

Florida Atlantic University   Boca Raton, FL
Master of Science in Computer Science   *Expected Graduation-Dec 2025*

Osmania University   Hyderabad, India
Bachelor of Science in Computer Science   *Sep. 2019 – Aug. 2023*
Relevant Coursework: NLP, Artificial Intelligence, Neural Networks, Software Engineering

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS
Frameworks: Next.js, React, Node.js, Material-UI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Jenkins, Vercel, Excel
Libraries: Pandas, NumPy, Matplotlib, PyTorch, TensorFlow
Certifications: Machine Learning Specialization (**Stanford and Deeplearning.AI**), Generative AI with Diffusion Models(**NVIDIA**)

EXPERIENCE

Software Engineering Fellow | *Next.js, Pinecone, OpenRouterAPI, Firebase, Clerk*   July 2024 – Sep. 2024
Headstarter AI   *United States*
- Led a team of **5** in delivering AI projects by leveraging Agile development practices, optimizing workflows to improve project delivery speed by **20%** and ensuring solutions were scalable and efficient.
- Extracted actionable strategies from ten expert-led sessions on AI and Next.js, guiding key architectural choices for two major projects and directly resolved 15 high-priority bugs.
- Orchestrated weekly code reviews for a team of 5 engineers, identifying and implementing 6 key improvements per week to enhance code quality and reduce post-deployment issues.

Machine Learning Intern | *Python, PyTorch, NumPy, Matplotlib, Scikit-learn*   June 2023 – Aug. 2023
National Small Industries Coorporation (NSIC)   *Hyderabad, India*
- Contributed to **2+** Agri-tech and local language translation projects by utilizing neural networks for crop yield prediction and decision trees for language classification tasks, leveraging PyTorch and scikit-learn to optimize model performance.
- Processed unstructured datasets to develop machine learning models for language classification, implementing feature extraction techniques that improved classification accuracy by **15%** than the previous model.
- Examined neural network architectures like transformers and CNNs, and documented findings to fix the three biggest causes of model performance issues, supporting senior researchers.

PROJECTS

AI Automated Voice Travel Agent | *Python, n8n, OpenAI, ElevenLabs, Twilio* | (**Call 425-842-2514**)   Feb. 2025 – Mar. 2025
- Developed an AI-powered voice travel agent using enabling seamless voice and SMS interactions with natural, human-like AI-generated responses for enhanced user engagement.
- Automated **travel recommendations a**nd **booking assistance** by orchestrating **n8n workflows** and utilizing **GPT API for conversational AI**, improving response accuracy and efficiency.

Pantry-Tracker | *Next.js, Firebase, Vercel, OpenRouterAPI* | **Live Demo**   Oct. 2024 – Nov. 2024
- Engineered a Next.js full-stack web application integrated with Firebase for secure authentication and efficient data management, deployed on Vercel.
- Provided tools to **track items, view analytics, and manage inventory** through a dynamic dashboard.
- Integrated **Open Router API** for recipe generation based on available pantry items.

YouTube Video QA System using RAG | *Hugging face, Langchain, Google Colab, Pinecone, OpenRouter*   Aug. 2024 – Sep. 2024
- Built a system to process YouTube video transcripts and apply **RAG** for question answering.
- Integrated Pinecone with Hugging Face for efficient embedding retrieval and used OpenRouter API to streamline LLM access, enabling accurate context aware and timely responses from video content.

LEADERSHIP

Vice President (AI Club- Undergrad)   May 2022 – Aug. 2023
Lords Institute of Engineering and Technology   *Hyderabad, India*
- Organised AI workshops and hackathons, engaging **100+** students in machine learning and Data Science projects.
- Coordinated guest lectures with industry experts, offering insights into AI advancements and career opportunities.
- Led AI research initiatives, mentoring students on building Data Science projects like chatbots and image classification models.