

Shaheer Suhail

✉ sh5suhail.pk@gmail.com | GitHub | Portfolio

EDUCATION

National University of Science & Technology (NUST)

Bachelor of Engineering in Computer Engineering

September 2022 – April 2026

Islamabad, Pakistan

RELEVANT COURSEWORK

- Digital Image Processing

- Object Oriented Programming

- Data Structures & Databases

EXPERIENCE

Fiverr

Desktop Development Engineer

January 2024 – Present

Freelance, Remote

PsychiatrAI

Full Stack AI Intern

June 2025 – August 2025

Remote, Pakistan

- Tech Stack: React.js, TypeScript, Redux Toolkit, LangGraph(Banckend),LangChain, Redis, Vercel, Render, Docker,JWT, Tailwind CSS
- Developed a mental health chatbot leveraging Cognitive Behavioral Therapy principles to facilitate structured therapeutic sessions and provide AI-powered guidance.
- Engineered backend architecture for CBT conversation flows using LangGraph nodes and LangChain components for context-aware interactions.
- Deployed LangGraph on self-hosted platforms utilizing LangGraph Server APIs and integrated backend services with React.js frontends featuring responsive UIs.

CARE Pvt. Ltd.

May 2025 – August 2025

AI/ML Intern

Islamabad, Hybrid

- Conducted comprehensive model research and selection for machine learning application in healthcare domain.
- Researched and evaluated fetal CLIP model architecture for medical imaging analysis.
- Documented research findings and model performance metrics for fetal CLIP model implementation.
- Compiled technical documentation detailing model selection criteria, evaluation results, and recommendations.

PROJECTS

Mission Logging and Tracking Mobile App for Pakistan Army Pilots

- Tech Stack: React Native, Django REST Framework, PostgreSQL, Python
- Developed a cross-platform mobile application for Pakistan Army pilots to streamline mission logging and tracking operations.
- Built Django REST backend with PostgreSQL database for efficient mission data storage and retrieval.
- Enabled real-time mission tracking with filtering capabilities by pilot, location, and date for unit commanders.

CRM Agent – Marketing AI

- Tech Stack: React.js, LangGraph, Supabase, MCP, Gemini API, Python
- Developed an AI powered CRM agent that automates client management and marketing workflows using structured customer data and RFM analysis.
- Built LangGraph workflows for CRM automation and intelligent decision making with human-in-the-loop validation checkpoints.
- Applied RFM analysis for customer segmentation and designed AI driven campaigns for re-engagement, referral, and loyalty programs.
- Integrated with Supabase for real-time data management and used Model Context Protocol (MCP) for seamless tool integration.

Meeting Assistant with CrewAI Flow based Automation

- Tech Stack: CrewAI, Slack API, Python
- Built a meeting assistant using CrewAI to extract action items and tasks from meeting transcripts.

- Integrated Slack API to automatically push extracted tasks and updates to team channels.

Mental Health Insights in the Tech Industry Using Interactive Data Visualization

- **Tech Stack:** Streamlit, Python, Flask, Audio Processing
- Built an interactive dashboard using Streamlit for visualizing trends in burnout, support, and awareness.
- Applied data exploration and storytelling techniques to highlight key behavioral patterns.

Speech, Music, and Noise Detection System |

- **Tech Stack:** React.js, Python, Flask, Audio Processing
- Developed classification model that analyzed audio input into speech, music, or noise.
- Achieved 93.5% validation accuracy.

Efficient Word Finder with File Ranking and Links

- **Tech Stack:** C++, Data Structures, Algorithms
- Developed a word search engine with interactive user interface for efficient multi-file word searching and ranking.
- Implemented Ternary Search Tree data structure for optimized word lookups and file location extraction.
- Built file ranking system based on word occurrence frequency to prioritize most relevant results.

Intelligent Driver Drowsiness Detection & Safety System

- **Tech Stack:** C++, Arduino, ESP32, Firebase, Computer Vision
- Designed drowsiness detection system using computer vision to monitor driver's eye closure patterns and alert mechanisms.
- Programmed ESP32 microcontroller to automatically engage vehicle safety protocols when driver unresponsiveness is detected.
- Implemented hardware integration with motors and sensors for automated vehicle safety feature control.

CERTIFICATIONS

Introduction to Deep Learning & Neural Networks

Coursera

Advanced Learning Algorithms by Andrew Ng

Coursera

SKILLS

Languages: Python, Java, C++

Frameworks: LangChain, LangGraph, TensorFlow, CrewAI, React

Knowledge: Regression, Classification, ANNs, CNNs

Version Control & Collaboration: Experience in version control using GitHub for collaborative project development

DevOps & Tools: Docker

ACHIEVEMENTS

NUST High Achiever Award 2023

Institution Topper High School

EXTRACURRICULAR ACTIVITIES & COMMUNITY SERVICE

Seminar & Workshop Organizer: Organized various seminars and workshops as part of curricular activities.