



Shaheer Suhaib

Final Year Computer Engineering Student

✉ sh5suhaib.pk@gmail.com |  [github](#) |  [portfolio](#)

EDUCATION

National University of Science & Technology (NUST)

Bachelor of Engineering in Computer Engineering

September 2022 – MAY 2026

Islamabad, Pakistan

RELEVANT COURSEWORK

- Digital Image Processing
- Object Oriented Programming
- Data Structures & Databases

EXPERIENCE

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Full Stack Engineer

December 2026 – Present

Remote, US, Full-Time

- **Tech Stack:** JavaScript, Chrome Extensions, DOM, Mutation Observers, Communication API, Git
- Develop and optimize autofill functionality for multiple platforms, leveraging DOM queries, selectors, and runtime scripts to enhance efficiency.
- Implement dynamic field detection using Mutation Observers and message passing APIs to ensure accurate real-time form filling.
- Refactor platforms codes, resolve large-scale merge conflicts, and prepare pull requests.
- Workflow optimizations with internal tools to ensure reliability and process accuracy.

PsychiatrAI

Full Stack AI Intern

June 2025 – August 2025

Remote, Pakistan

- **Tech Stack:** , LangGraph (Backend), LangSmith, LangChain, LangSmith Python, Redis, Vercel, Render
- 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.

AI/ML Intern

June 2025 – July 2025

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.

Fiverr

Desktop Development Engineer

January 2024 – June 2024

Freelance, Remote

PROJECTS

Mission Logging and Tracking Mobile App for Pakistan Army Pilots

- **Tech Stack:** Django REST Framework, PostgreSQL, Railway(deployment)
- 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:** 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, Trello 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: 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**
- 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

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| Introduction to Deep Learning & Neural Networks | Coursera |
| Advanced Learning Algorithms by Andrew Ng | Coursera |

SKILLS

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| Languages: Python, Java, C++, JavaScript |
| Frameworks: LangChain, LangGraph, TensorFlow, CrewAI |
| Technologies & Tools: Supabase, Redis, Vercel, Render, Chrome Extensions, |
| Knowledge: Regression, Classification, ANNs, CNNs |
| Version Control & Collaboration: Experience in version control using GitHub for collaborative project development |

ACHIEVEMENTS

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| NUST High Aciever Award 2023 |
| Institution Topper High School |

EXTRACURRICULAR ACTIVITIES & COMMUNITY SERVICE

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