Shoaib Tashrif
AI Software Engineer

✉ shoaib.tashrif@gmail.com
📞 +923040610720
📍 Satellite town Rawalpindi
🐙 shoaibtashrif

Experienced and Dynamic AI software engineer with excellence in developing AI applications, multithreaded systems, multi-calling voice agents and intelligent solutions using python, Langraph, Langchain, LLMs and using different AI tools like bland AI. Specialized in Natural Language Processing (NLP), Voice Processing, and AI workflow design, including chatbot development and agent-based systems.

Skilled in prompt engineering and utilizing AI models to enhance functionality and user experience over different platforms. Expert in MERN stack and web development frameworks Django and Flask, with hands-on expertise in developing intelligent solutions that blend AI capabilities with modern web technologies.

SKILLS

- Generative AI
- Conversational AI
- AI voice agents
- Micro service Architecture
- Multi Processing Development
- Chatbot Development
- Multi-threaded Development
- Prompt Engineering
- CNN
- OCR
- RAG
- Langchain
- Langraph
- Voice Processing
- Computer Vision (YOLO)
- OpenAI API
- Hugging Face
- OpenCV
- Ollama
- Python
- NLP
- Team/Project management
- Planning
- AI Integration
- Cloud solutions
- LLMs Fine tuning
- MERN Stack
- AI workflow design
- Linux
- GitHub
- Docker
- AWS
- No Code AI tools

WORK EXPERIENCE

AI software Engineer- Wosler Corp   *Oct 2024- Present*
Canada-Remote

- Delivered End-to-end Artificial Intelligence software products for HilumAI
- Designed and implemented a **voice-To-Voice** AI assistance system for Nexus
- Architected and optimized the code structure for Nexus VTC Core Chatbot

- Configured and deployed LLMs (Llama, GPT, Faster Whisper, ElevenLabs) Locally on the server
- Built workflows for each agent, database models and APIs
- Deployed System on AWS(EC2)
- **Technologies:** Langchain, langraph, Twilio, ollama, python VAD, STT, TTS, AWS, GCP, llms

Sr. AI Software Engineer - NetTech Ltd.
Pakistan- Islamabad

May 2025- Present

- Designed and implemented the core architecture for multi-agent systems, reasoning frameworks, and RAG pipelines.
- Responsible for critical decisions on model selection and integration patterns to ensure reliability and performance.
- Lead cross-functional teams through the full AI project lifecycle and managed the technical roadmap.
- Engaging with clients and partners to articulate technical vision and demonstrations of AI solutions
- Engineer scalable and reliable workflows for AI agent coordination, task decomposition, and tool usage within larger software ecosystem.
- **Technologies:** Python3, STT, TTS, AWS, langraph, open-source LLMs, Fast API, AI workflows and AI framkeworks

AI Team Lead - ControlShift AI
Australia-Remote

May 2025- Aug 2025

- Design, document, and advocate for system architecture, to ensure solutions were aligned with goals
- Lead the technical execution of projects, from initial planning and sprint grooming to delivery and deployment.
- Develop the initial codebase, prototypes, and core frameworks.
- Provide technical guidance, mentorship, and code reviews to maintain code quality across the team.
- Collaborate with product managers and business stakeholders to define requirements, manage technical risks, and set realistic expectations.
- **Technologies:** Ai Workflows, AWS, AI frameworks, Technical Documentation, Creative Briefs, STT/TTS models, GCP, LLMs

Agentic AI Developer- Orison Technologies
Islamabad-Remote

April 2024- Oct 2024

- Designed Architecture and built end-to-end system with Chatbot and Talkbot features
- Architected and optimized the core code structure for the VoxEnt AI for modularity across both chatbot and talkbot agents
- Created workflows for custom agent generation at runtime
- Microservices Architecture, designed and implemented configuration pipelines
- Enabled support for custom tool integration without coding
- Designed database models and developed supporting APIs
- Deployed on Hyperstack A100
- **Technologies:** Langchain, Python3, Language swarm, Quick start, Ollama, OpenAI, VAD, Whisper, realtime STT, TTS streaming, GCP, AI workflows

AI Software Engineer - Valyrian System Inc.
Pakistan- Islamabad

Nov 2021 – Dec 2024

- Worked on **WMS Pakistan** (web management system) at **PTA (Pakistan Telecommunication Authority)** on behalf of company
- Management of URLs Classification with AI
- Built an AI system for spammer detection through Voice

Backend Developer - Valyrian System Inc.

- worked on Backend development in Python and Node.js
- APIs integration

Generative AI Developer - Stealth Startup
US-Remote

Feb 2024 – Aug 2024

- Created workflow, algorithms for a product preference base system
- Integrated API and fine tune system and deigned prompt

PROJECTS

HilumAI (Voice Assistant)

- Voice-to-voice calling AI bot for booking, modification/cancelation of existing booking, customer support, services inquiry regarding health
- delivered whole functionality of the slots booking, APIs building, pipeline setup, database models and system deployment on AWS (EC2)

Nexus Tasks:
- Making a booking
- Cancel/modify existing booking
- Customer Support
- General Inquiry about health and services
- Voice-To-Voice communication with patients

VoxEnt AI (Multi-lingual AI Talkbot)

- VoxEnt AI is SDK to create multi agent and multilingual chatbots and talkbots
- VoxEnt AI simplifies conversational AI development
- Creates custom AI agents and AI talkbots
- Offers the flexibility to create custom agents and integrate personalized tools on the fly.
- Deployed on Hyperstack A100

Cabee (AI assitant for ride booking)

- Cabee is used in UK to book ride through AI calling
- User can book, schedule and cancel rides

Howkeye-100

- Offers internet traffic management
- Responsible for Urls classifications through AI
- Did Backend development in python and Node.js

Spammer ID

- Build AI base Voice recognition system to identify the person with its voice. This helps in detection of spammer voice base on its voice unique features.
  Python | AI | Linux | LLM

Intelli firewall

- I have developed this whole project. It offers controls for monitoring user activity within organization
- Real-time internet traffic monitoring with rule-based blocking, spam detection, and identification of unknown traffic.
  Python | React | Django | Tensorflow | Scapy | Linux

Student Interest Analysis based on Images Processing

- I have created this system which takes the pictures of class on different times and calculate the interest of Students in specific activity using image processing
  python | OpenCV | Tensorflow | Image Processing

Object Detection System

- Detects Objects Based on their Unique features. It can recognize and differentiate Human and other objects.
  python | YOLO 5 | Model tuning | Generative AI

EDUCATION

BS Software Engineering

Information technology Campus-PMAS Arid Agriculture
University Rawalpindi, Pakistan

3.4/4 CGPA

CERTIFICATION

AI Automation with Python 2022

Generative AI 2023

MERN Stack Development 2021

Agentic AI 2024