Awais Hanif

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Experience

Full Stack AI Developer at Tolu Health (Remote)

August 2024 – November 2025

- Single handedly developed the whole backend of the Tolu AI platform
- Managing website deployment and hosting operations on AWS EC2 with Docker containerization and Nginx configuration
- Overseeing HIPAA compliance-related tasks to ensure healthcare data security and regulatory adherence
- Technologies utilized (Python, FastAPI, React, Docker, PostgreSQL, OpenAI, Langchain, Nginx, AWS (EC2, S3, CloudTrail, CloudWatch, Route52))

Freelance Developer at Upwork.com & Freelancer.com (Remote)

May 2022 – Present

- Completed 15+ machine learning and full-stack development projects with consistent 5-star client ratings
- Specialized in building AI-powered data analysis tools, chatbots, and predictive models using Python and modern web frameworks
- Delivered end-to-end solutions including data pipelines, ML model deployment, and interactive dashboards
- Technologies utilized: Python, FastAPI, Next.js, Jupyter Notebooks, R, MATLAB, OpenAI, Langchain, Nginx, Power BI, Tableau, Streamlit, TensorFlow, PyTorch

Machine Learning Engineer at CATCOS (Pvt.) Ltd. (Pakistan)

May 2019 – May 2023

- Designed and maintained company data APIs and built robust ETL pipelines for processing large-scale datasets

- Developed and deployed machine learning and deep learning models for production environments using TensorFlow and PyTorch

- Implemented automated monitoring systems and performed regular maintenance of deployed models to ensure optimal performance

- Technologies utilized: Python, FastAPI, TensorFlow, PostgreSQL

Executive Engineer at [ZOS Technologies](#) (Pakistan)

April 2018 – May 2019

- Managed Karachi Region operations including engineer assignments for sales and service leads

- Provided technical support for laboratory instruments serving pharmaceutical and petroleum sectors

- Led installation and commissioning of TOC Analyzers, Particle Counters, and related equipment

Engineer at [Innovative Pvt. Ltd](#) (Pakistan)

July 2017 – April 2018

- Resolved daily software and hardware complaints for ATMs (Diebold Nixdorf), cash sorting machines (G&D), and UPS systems (APC)

- Managed installation and on-site refurbishment of banking equipment across assigned territory

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Skills

Languages: Python, React, Next.js, R

Backend & Databases: PostgreSQL, MongoDB, RESTful APIs

ML/AI Frameworks: TensorFlow/Keras, PyTorch, Scikit-learn

Cloud & DevOps: AWS (EC2), Docker, Nginx, Git, CI/CD

Data Visualization: Microsoft Power BI, Tableau

Projects

1. AI-Powered Data Analytics Platform for [Well Ordered Consulting](#)

October 2023 – May 2024

- Developed an MVP featuring a GPT-powered data chatbot, automated dashboard generator, and forecasting modules

- Built using Python backend with Next.js frontend, integrating OpenAI APIs for natural language data queries

- Delivered three interconnected modules enabling non-technical users to perform complex data analysis

- Technologies utilized: Python, Flask, OpenAI, Langchain, Next.js

2. Skin Cancer Classification Using Vision Transformer and AlexNet

2023

- Implemented Vision Transformer and AlexNet architectures using TensorFlow for multi-class skin cancer image classification

- Trained models on ISIC archive dataset, achieving 93% accuracy comparable to state-of-the-art architectures

- Performed comprehensive model evaluation and comparison to optimize classification performance

- Technologies utilized: Python, Tensorflow, Jupyter Notebooks

3. Islamabad Air Quality Forecasting Using Time Series Models

2023

- Built forecasting models using ARIMA, SARIMA, and Prophet to predict air quality indices for Islamabad

- Performed data preprocessing, feature engineering, and model validation with historical environmental data

- Delivered actionable insights for urban planning and environmental monitoring

- Technologies utilized: Python, ScikitLearn, StatsModels, Jupyter Notebooks

4. Quadcopter Control Using Low-Resolution EEG Device

2017

- Developed brain-computer interface using SVM and Multilayer Perceptron algorithms in MATLAB

- Implemented feature extraction and classification pipeline for brain wave signal processing

- Interfaced Arduino with NI LabVIEW for real-time quadcopter control based on EEG signals

- Technologies utilized: MATLAB, NI LabVIEW, Emotive Epoc x

Education

M.S. in Data Science – NED University (Pakistan) | **2021 – August 2023**

B.E. in Electronics Engineering – Iqra University (Pakistan) | **2012 – December 2016**

Additional Information

- **Languages:** English (Native or Bilingual), Urdu (Native or Bilingual), Bahasa Indonesia (Basic)

- **Availability:** Open to remote opportunities globally

- **Legal Status:** Currently based in Medan, Indonesia