

Waqar Fazal

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Skills

Programming Languages

• Python • JavaScript • C++ • PHP

Tools & DBs

• GCP • Firebase • Git • SQL/MySQL

Mobile Development

• Flutter • React Native

Web Development

• React • NextJs • NodeJs • Flask • Laravel
• TypeScript

Artificial Intelligence

• Tensorflow • Keras • OpenCV • Pandas
• Machine Learning • Deep Learning • Model Fine Tuning • Sci-kit Learn

Career

OpenAI | OpenAI via Turing - Contract

May 2022 - May 2025

Software Engineer - ML Engineer

- Led a team of 10 engineers to deliver high-quality data across domains like Frontend, Backend, Python, SQL, Data Science, ML & DL.
- Contributed to major ChatGPT features, including Browser, Plugins, and Advanced Data Analysis.
- Evaluated and improved model performance on tasks like debugging, unit testing, and algorithmic problem-solving.
- Collaborated with OpenAI researchers to align data quality with evolving product goals.
- Mentored engineers on best code practices, code review, & best practices for technical data.
- Mentored and onboarded 100+ new engineers.

Freelance

August 2021 - April 2022

Full-stack Developer | ML/DL Engineer

- Initiated a global freelancing career during graduation, collaborating with clients across diverse industries and time zones.
- Built a fully functional MVP for Khedmat, an on-demand delivery app designed to scale for high user traffic and real-time service demands.
- Developed a deep learning-based MVP to detect bone fractures from X-ray images, leveraging CNN architectures for medical image analysis.
- Created a fully functional eCommerce website, integrating features like product catalogs, payment gateways, and order management.
- Demonstrated end-to-end product development skills — from client communication and requirement gathering to deployment and post-launch support.
- Gained hands-on experience in scalable architecture, full-stack development, and machine learning applications in real-world scenarios.

Projects

FracDetect | Contract

ML/DL Engineer | Full-stack Web Developer

- Working on one of my freelancing projects, built a web app for detecting fractured part from x-ray image using custom-trained YOLO model for detecting the bounding boxes.
- Utilized the open source dataset for training deep learning model.
- The model is trained in Google Colab by using Python, Tensorflow, Keras & OpenCv.
- The model is integrated into a web app that is built using Python/Flask for end users with additional features like Creating cases for multiple patients, analytics etc.

SelfDerm | Personal Initiative

ML/DL Engineer | Hybrid Mobile Developer

- Built a deep learning-based skin disease diagnosis app, recognizing 18 skin conditions from medical images.
- Collected and prepared image datasets from public sources; applied preprocessing and augmentation techniques to improve model accuracy.
- Trained a custom CNN model from scratch using Google Colab with GPU support for accelerated development.
- Integrated the trained Model with the app.
- Designed and developed a cross-platform Flutter UI, delivering a user-friendly mobile interface for diagnostics.
- Completed full-cycle development — data sourcing, model building, deployment, and UI — demonstrating end-to-end project execution skills.

Heinrich's Ghana Ltd | Contract

Full-stack Web Developer

- Working on one of my freelancing projects, built an e-commerce store along with an admin panel.
- The e-commerce store contains the products with variations, compare products, wish list, cart, checkout, login/signup, orders management.
- The admin side contains the sales, purchase, team management, permissions, statistics, add, edit, and delete products.
- Built using React, Redux & Firebase.

Khedmat | Contract

Full-stack Flutter Developer | Full stack Web Developer

- Working on one of my freelancing projects, built on-demand home services mobile app which helps to book services.
- This project involves a Web app for admin-related stuff like managing bookings, adding services etc, and a mobile app that is being used by end users to book the services etc.
- The mobile app is built in flutter & firebase. The web app is built using PHP/Laravel and MySql.

- Developed an inventory management system for retail stores, adaptable to domains like pharmacies and grocery shops.
- Built the backend using PHP (Laravel) framework and implemented relational data structures with MySQL.
- Designed features for stock tracking, product categorization, and low-inventory alerts to streamline store operations.
- Focused on scalability and modularity to support various retail formats with minimal customization.
- Delivered a complete, functional solution from database design to deployment, ensuring ease of use for non-technical users.

EDUCATION

University of Kotli, AJK

BS Software Engineering

Sep 2016 - Dec 2020

Areas of Interest

- Agentic AI, RAG and Multi-agent system
- Generative AI
- LLMs, and Fine Tuning LLMs
- Real-world Applications of AI in Healthcare.
- AI-powered Product Development
- AI for Social Impact & Accessibility in Underserved Regions
- Full-Stack Web Development & Hybrid Mobile Development

Languages

- English – C1 (Advanced, full professional proficiency)
- Urdu (Native)