

# Waqar Fazal

 <https://www.waqarfazal.com>  
 [waqarfazal268@gmail.com](mailto:waqarfazal268@gmail.com)  
 [linkedin.com/in/waqarfazal](https://linkedin.com/in/waqarfazal)  
 [+923047739558](tel:+923047739558)

## 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)