

Mashal Khalil

Software Engineer | Python Developer | AI Engineer

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PROFESSIONAL SUMMARY

Detail-oriented and adaptable Software Engineer with hands-on experience in Python development, AI/ML modeling, and full-stack web & mobile application development. Demonstrates strong communication skills in cross-cultural environments, with a passion for integrating Chinese technology platforms. Fluent in English and Urdu; intermediate Mandarin proficiency. Seeking to contribute to international engineering operations between Pakistan and China.

EDUCATION

Air University Aerospace and Aviation Campus Kamra

Bachelor of Science Computer Science (BS-CS)

Attock, Pakistan

Sep 2020 – June 2024

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, JavaScript.
- **AI/ML Tools:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Frameworks:** Flask, Django, React JS, React Native
- **Database:** Firebase, SQL
- **Other Skills:** Git, REST API Integration, Firebase Auth & Cloud, Data Visualization, Agile/Scrum, Technical Documentation

PROFESSIONAL EXPERIENCE

- Frontend Developer | Abidi Solutions

July 2024 – March 2025

 - Developed responsive UIs with **React JS** and **React Native**, optimizing user experience across devices.
 - Converted **Figma designs** into reusable and scalable frontend components.
 - Maintained documentation and created client-facing **pitch decks** and presentations.
- ERP Specialist Intern | Mehria Town

June 2024 – August 2024

 - Improved internal ERP system performance through **SQL database optimization**.
 - Conducted extensive **software testing and debugging**, enhancing system reliability.
 - Contributed to workflow analysis and improved usability for non-technical users.
- Data Science Intern | Code Clause

July 2023 – August 2023

 - Built ML models for classification and regression tasks using **scikit-learn** and **pandas**.
 - Applied feature engineering, data preprocessing, and cross-validation techniques.
 - Gained exposure to **neural networks** and real-world AI problem-solving.
- Python Developer Intern | Pakistan Aeronautical Complex Kamra (PAC)

June 2023 - July 2023

 - Built staff record management modules using **Django**, REST APIs, and **secure backend logic**.
 - Improved API documentation and deployment understanding.

PROJECTS

- IoT- Based AI Remote Asthma Patient Monitoring System (Final Year Project)

 - Built IoT device using Arduino Nano, ESP8266, and 6 medical sensors to track real-time health data.
 - Developed a Django-based web app for **patient-doctor interaction** and **health monitoring**.
 - Trained an AI model for asthma prediction using real patient data and symptom tracking.
 - Implemented **role-based access**, allowing doctors to diagnose and patients to track health remotely.
- Ride-Hailing & Car Rental App

 - Led planning, requirement gathering, and **full SDLC** for web and mobile platforms.
 - Developed app (**React Native**) and web portal (**React.js + Django REST API**).
 - Integrated user verification, trip tracking, fare logic, and real-time driver alerts.
 - Collaborated with cross-functional teams for **UI/UX, backend, and deployment**.

Movie Recommender System (NLP + Streamlit UI)

- Built a content-based recommendation system using **NLP** and **cosine similarity** on TMDB dataset.
- Applied stemming, **vectorization**, and CountVectorizer; achieved **real-time suggestions** via **Streamlit**.
- Fetched **poster data** using TMDB API; deployed using Pickle serialization.

Car Price Prediction Web App

- Built **Flask-based web app** using a regression ML model trained on Kaggle dataset.
 - Applied preprocessing, feature scaling, and integrated model via REST API.
 - Deployed an interactive UI for real-time predictions.
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CERTIFICATIONS

- **Python for Data Science, AI and Development – Coursera (IBM)**
- **Data Analytics and Visualization – Accenture**
- **Data Manipulation with Pandas – DataCamp**
- **Machine Learning with Python – LinkedIn Learning**
- **Arduino Workshop – AU A&ACK**
- **Introduction to CHATGPT -- DataCamp**
- **Introduction to SQL -- DataCamp**