

ALI HASSAN

Software Engineer • Full-Stack Developer • ML / AI Engineer

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SUMMARY

Final-year Software Engineering student (BS SE, UMT Jun 2026) with demonstrated ability to architect and ship full-stack applications, design machine learning pipelines, and lead system architecture across real client and academic projects. Independently delivered multiple freelance web applications and led a 3-backend job portal as system architect, while completing a production grade AI dermatology platform as a final year capstone. Brings a consistent combination of frontend precision, backend depth, and applied ML expertise equally capable across MERN, Django, and Spring Boot environments.

EXPERIENCE

ME. AI-Powered Skin & Scalp Treatment System

Final Year Project · 2025

React · Django · MySQL · EfficientNet-B4 · U-Net · YOLOv8 · XGBoost · LLM

- Architected an end-to-end personalised dermatology platform analysing user images and medical history to generate adaptive treatment plans achieving above 90% classification accuracy across skin and scalp conditions.
- Engineered a 5-stage vision pipeline (MediaPipe → EfficientNet-B4 → U-Net → YOLOv8 → XGBoost) with an LLM output layer; React frontend, Django REST API, and MySQL backend with longitudinal history tracking.

Multi-Backend Job Portal

Team Lead & System Architect · 2024

React / TypeScript · Spring Boot · Node.js / Express · Flask · PostgreSQL · MongoDB

- Led architecture and development of a recruitment platform across 3 independent backends sharing one React/TypeScript frontend CV parsing, multi-role RBAC, real-time messaging, and JWT auth.

Olympics Data Analysis & Prediction Dashboard

Academic · 2024

Flask · Scikit-learn · Pandas · Chart.js · PostgreSQL

- Role-gated analytics platform (3 access tiers) with Random Forest, SVM, and Logistic Regression medal prediction across 120 years of Olympic data.

Sellerova - Amazon Catalog Management System

Freelance · 2024

MERN · Amazon SP-API

- Catalog automation platform with SP-API inventory sync across 1,000+ SKUs and role-based access controls reduced client manual workload by 70%.

Computer Vision Portfolio

Freelance · 4+ Clients · 2023 – 2025

Python · OpenCV · YOLOv8 · MediaPipe · TensorFlow

- CNN classifiers (above 92% accuracy), YOLOv8 real-time detection with ONNX export, and MediaPipe pose recognition delivered across 4+ client engagements.

Freelance Full-Stack Web Applications

6 Projects · 2023 – 2025

React · Node.js · MongoDB · Socket.io · Stripe

- Six shipped client products: e-commerce (Stripe), real-time chat (Socket.io), logistics dashboard, inventory manager, scheduling SaaS, and headless CMS with SEO optimisation.

SKILLS

Frontend	React, TypeScript, Tailwind CSS, Bootstrap, HTML5, CSS3
Backend	Node.js, Express, Django, DRF, Spring Boot, Flask, REST APIs
Databases	MySQL, PostgreSQL, MongoDB, SQLite
Computer Vision	YOLOv8, U-Net, EfficientNet-B4, MediaPipe, OpenCV, CNNs
NLP & LLMs	spaCy, Hugging Face, LLM API Integration, Text Classification
Deep Learning	Back-propagation, Batch Normalisation, Dropout, Regularisation, Data Augmentation
Classic ML	Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn
Practices	Agile, Scrum, Git, SDLC, SPM, SQE, Code Review, Unit Testing

CERTIFICATIONS & EDUCATION

IBM Machine Learning Professional Certificate IBM · Coursera

Meta Front-End Developer Professional Certificate Meta · Coursera

Meta Back-End Developer Professional Certificate Meta · Coursera

BS Software Engineering — University of Management & Technology (UMT), Lahore Nov 2022 – Jun 2026

Relevant coursework: Software Architecture, SPM, SQE, AI & ML, Web Engineering, Database Systems