

Dania Arshad

Education

2022–2026 **COMSATS University Islamabad, WahCantt Campus**
Software Engineering - CGPA: 3.73

Experience

- Jan 2025 – Jan 2026 **England, UK (Remote Job)**, HEALORA LTD, Full Stack Developer with AI/ML integration
Some Projects Led & Delivered in Collaboration
MS Teams Meeting Intelligence Bot
Python | OpenAI Whisper | FFmpeg | Google Gemini | Jira REST API | Audio Processing
 - Developed an automated MS Teams bot that joins meetings, records audio, and transcribes conversations using OpenAI Whisper.
 - Built a scalable audio processing pipeline (.aac to .wav) and Applied LLM-based analysis with Google Gemini to generate automated Jira stories.
 - Leveraged FFmpeg to capture MS Teams audio directly, eliminating dependency on paid Microsoft APIs such as the Microsoft Graph Cloud Communications.
 - Eliminated manual documentation effort, significantly improving team productivity, requirement traceability, and sprint planning efficiency.
Cruise Company Data Automation System
Python | MySQL | REST APIs | React | Bootstrap
 - Automate the workflow of Cruise Company by cleaning unstructured data, handling multiple formats, and uploading processed datasets into SQL tables using Python scripts with no manual work.

July – Sept, 2025 **Internship**, FEDERAL SHARIAT COURT, ISLAMABAD, IT Internee
Judicial Web & Case Law Management System
React | Node.js | MySQL
 - Developed systems for managing court judgments and historical data (1980–2025) with advanced filtering. Gained hands-on experience working in a government IT environment with high reliability and security requirements.

Projects

- Feb, 2026 **VPN User Activity Monitoring Dashboard**, *Cloud Computing/Web Dashboard* 
AWS EC2 | Ubuntu | OpenVPN | React | Vite | Tailwind CSS
 - Deployed the complete monitoring stack on AWS EC2. Implemented real-time VPN activity logging with user identification, VPN IP real IP mapping, geolocation, and time-stamped auditing.
 - Enabled DNS-based domain activity tracking and built web dashboards with REST APIs for centralized monitoring and reporting.
- Jan, 2026 **VPN App Deployment on AWS**, *Cloud Computing/Full Stack* 
AWS EC2 | Ubuntu | Node.js | Flutter | OpenVPN | IKEv2
 - Built and deployed a production-grade OpenVPN + IKEv2 server on AWS EC2 Ubuntu, exposing secure Node.js REST API with integrated with Flutter app for end-user connections.
 - Full server, installation, and configuration management. enabling real-time VPN connectivity (connect/disconnect). Ensured high availability and production stability by implementing PM2-based process management.
- Dec, 2025 **End-to-End DevOps CI/CD Pipeline**, *DevOps* 
AWS | Git | Docker | Jenkins | Kubernetes | Terraform | Prometheus | Grafana
 - Implemented end-to-end observability across frontend, backend, and infrastructure using Node Exporter, Prometheus Client, Express Prometheus Middleware, and Nginx Exporter, and designed a complete CI/CD pipeline to automate build, test, and deployment of a 3-tier web application using GitHub workflows, branch protection, pull-request reviews, and Jenkins pipeline triggers.
 - Built and published Docker images to DockerHub, ensuring version control and reproducibility of application builds.
 - Provisioned AWS infrastructure using Terraform, managing three EC2 instances:
 - EC2-1 for provisioning with Terraform and Ansible
 - EC2-2 for containerized deployment with Docker and Kubernetes
 - EC2-3 for CI/CD orchestration with Jenkins and monitoring via Prometheus and Grafana
 - Deployed applications on Kubernetes clusters, enabling container orchestration, scaling, and load balancing.
 - Visualized system health and performance on Grafana dashboards via PromQL.

- May – Nov, 2025 **Seeing The Unseen, AI Assistant for Visually Impaired**, Dr. Faisal Azam 
Python / Flutter / FastAPI / Gemini 2.0 / LangChain / SQLite3 / TensorFlow / YOLOv4/YOLOv11 / Google ML Kit / Tesseract OCR
- Vision-based assistant with object detection, OCR, currency recognition, person detection, Intelligent Scene Description, Task Management, and real-time audio feedback.
 - OCR: Tesseract (85–90%), Google ML Kit (85–95%). Object detection: YOLOv4 (93%), currency: YOLOv11 (95%).
 - Integrated Gemini Flash 2.0 LLM for fast image input processing and intelligent scene description. Built FastAPI backend for task management and implemented person detection using FaceNet embeddings and Google ML Kit face landmarks (bounding box, nose, mouth).
- June, 2025 **Full Stack Blog Platform**, *Full Stack* 
React / Supabase / Tailwind CSS
- Built a multi-role blog platform with user authentication, article management, and an admin review workflow.
 - Enabled real-time publishing, CRUD operations for articles and profiles, and designed a responsive UI using Tailwind CSS for cross-device compatibility.
- Apr – May, 2025 **Breast Cancer Detection**, *Data Science*  
Python / Google Colab / Streamlit / NumPy / Pandas
- Developed a neural network for binary tumor classification (benign vs malignant), with extensive preprocessing.
 - Built an interactive Streamlit interface for instant predictions, and visualized training progress and classification results using Matplotlib.
- Nov, 2024 **Skin Lesion Detection**, *AI/Deep Learning* 
Python / TensorFlow / Keras / ResNet-152
- Trained a ResNet-152 CNN with TensorFlow/Keras for skin lesion classification using medical image datasets.
 - Applied preprocessing (resizing, normalization, grayscale) and augmentation (rotation, flipping, scaling) to improve accuracy and generalization.
- Sep – Oct, 2024 **Full Stack E-Commerce Website**, *Full Stack* 
Laravel / PHP / MySQL / Bootstrap / Google Maps API / Email Services
- Built separate user and admin panels for managing orders, inventory, and customer interactions; integrated Google Maps API, implemented email services for confirmations and notifications, and added a cron job for sending automated emails.
 - Designed a responsive frontend with Bootstrap, backed by a MySQL database for scalable inventory and order management.

Technical Skills

Cloud/DevOps: AWS, Docker, Kubernetes, Jenkins, Terraform, Prometheus, Grafana, Ansible

Data Preparation: Data Cleaning, Preprocessing, Feature Engineering

AI & ML: TensorFlow, Keras, PyTorch, YOLO, ResNet, Neural Networks, Model Training, Automated AI Pipelines

Databases: MySQL, MongoDB, SQL

Frameworks: Laravel, React, Node.js, Tailwind, Bootstrap, scikit-learn

Languages: Python, C++, Java, JavaScript, PHP, HTML, CSS

Tools: Linux, VS Code, Eclipse, Google Colab, Android Studio, Jira, Lucidchart, Visual Paradigm

Interpersonal Skills

Effective time management and accountability

Team collaboration with initiative-taking attitude

Curiosity and commitment to continuous learning

Experienced in leading and managing projects, ensuring successful delivery and team coordination

Achievements

- **Winner**, VISIO Spark 2025 in Software Project Category (All Pakistan)

- **Winner**, Open House & Job Fair 2025 Within University