

Abdul Aziz

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G15, Islamabad, Pakistan

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AI/ML ENGINEER | SOFTWARE ENGINEER

Passionate software engineer with focus on **AI, Machine Learning, and Full-Stack Development**. Experience in **GAN-based intrusion detection, computer vision (Virtual Try-On)**, and **AI-integrated web applications**. Skilled in **Python, PyTorch, TensorFlow, MERN stack**, and REST APIs. Strong problem-solving and collaboration abilities.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript

Databases: SQL, PostgreSQL, MongoDB, Firebase

Core: GANs, CNNs, IoT Security, NLP, Loss Function Engineering

Frameworks: PyTorch, TensorFlow, MERN, Flask, FastAPI

Tools: Git/GitHub, Jupyter, OpenCV

EXPERIENCE

Frontend Developer

Inara Technologies Pvt. Limited

Oct 2025 – Present

Onsite

- Design responsive dashboards and admin panels with a focus on usability and performance.
- Collaborate with backend teams to integrate RESTful APIs for a seamless user experience.

AI/ML Intern

Omnisolve AI

Aug 2025 – Oct 2025

Remote

- Contributed to a **Virtual Try-On E-commerce System** using CP-VTON for realistic clothing simulation.
- Built a **personalized AI shopbot** for intelligent, context-aware product recommendations.

RESEARCH

Intrusion Detection in IoT Networks using GANs

Final Year Research Project

Sept 2024 – June 2025

COMSATS University

- Proposed a **Dynamic Class-Weighted GAN (DCSW-GAN)** to address class imbalance and improve minority-class recall on IDS datasets.

PROJECTS

Virtual Try-On

PyTorch, OpenCV, CV

GitHub

- Developed a deep learning-based virtual outfit try-on system using image segmentation for realistic fitting.

PantryMind

Python, Flask, NLP

GitHub

- Built AI-powered pantry and recipe manager with ingredient parsing and personalized recommendations.

Laboratory Management System

MERN, JWT

GitHub

- Role-based dashboards for Admin, Staff, and Patients with secure JWT authentication.

E-Commerce Platform

MERN, REST APIs

GitHub

- Developed full-stack e-commerce with product management, cart, checkout, and scalable backend.

EDUCATION

COMSATS University, Abbottabad

Bachelor of Science in Software Engineering

Sept 2021 – Aug 2025

CGPA: 3.52/4.00

ACHIEVEMENTS & CERTIFICATIONS

- Certificate of Appreciation – TPS Ambassadorship Program (2023).
- Recognition for outstanding contribution as Hostel Monitor & Management Team Member, Islamia College.

LANGUAGES

English (Fluent), Urdu (Native), Pashto (Native)