Muhammad Hasnain Fatmi

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I'm a software developer with a focus on AI, full-stack development, and data analytics. My goal is to build practical and effective solutions that address real-world challenges.

# Education

**FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES Lahore, Pakistan**

Bachelor of Science, Computer Science **(Sep 2021 – June 2025)**

# Experience:

# SOFTWARE DEVELOPMENT INTERN Lahore, Pakistan

Techlogix Pakistan (Pvt.) **(Jul 2024 – Aug 2024)**

* Developed backend features using .NET Core for the TMXSD project.
* Built and refined frontend interfaces with AngularJS.
* Worked with a team to meet project milestones on a live project.

# Technical Skills

**Programming Languages:** C++, C#, Python

**Web Development:** ReactJs, AngularJs, Django REST Framework (DRF), .NET Core

**Data Science/AI:** RNN, CNN, Sentence-BERT, RAG

**Database:** PostgreSQL, SQLite, MySQL, MongoDB, Firebase

**Other:**  HTML, CSS, Linux, Flutter

# **Projects**

**SkillSync - FYP | RAG, DRF, REACTJs, SENTENCE-BERT (May 2025)**

* Final Year Project focused on Smart career guidance platform with personalized job recommendations

and career planning.

* Features: Personalized Career Advice, Context-Aware Job Recommendations, Skill Assessment.

**DCACNet-CD | CNN, ATTENTION CONDENSER, AUGMENTATION (Apr 2025)**

* This project develops a lightweight deep learning model for efficient skin lesion classificationusing

custom CNN.

* Classifies different types of skin lesions with high efficiency using the DC-AC attention-based

architecture.

**JPEGIFY | JPEG COMPRESSION, PYTHON, GUI (Apr 2025)**

* JPEG image compression and decompression system built from scratch in Python.
* Compresses grayscale and color images using standard JPEG techniques with adjustable quality and

a custom .jpgc file format.

**JANWAR | ATLAS MONGODB, EXPRESS, REACT, NODEJS (May 2024)**

* E-commerce platform for pet adoption and sales.
* Features: Post ads, buy/sell pets, purchase accessories, custom, transactions.

**HWCS | KNN, PYTHON, GSCM (Apr 2024)**

* Handwriting-based writer identification system.
* Features: Image processing, feature extraction, model training, Django-based application.

# Career Interests

Software Development Machine Learning App Development Freelancing