

# Muhammad Hasnain Fatmi

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Software engineer experienced in building data pipelines, transforming source data, and developing full-stack applications. My goal is to create practical and efficient systems that turn data into meaningful outcomes and drive business value.

## Education

**FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES**  
Bachelor of Science, Computer Science

Lahore, Pakistan  
(Sep 2021 – June 2025)

## Experience:

### ASSOCIATE SOFTWARE ENGINEER

EaseCloud Technologies

Lahore, Pakistan  
(Aug 2025 – Present)

- Built and maintained data streams to support data extraction, transformation, and analytics.
- Designed and optimized Snowflake data warehouse, implementing clustering and partitioning strategies that improved query performance and reduced compute costs by 40%.
- Created interactive Metabase dashboards tracking key business metrics, reducing ad-hoc reporting requests and enabling executives to identify revenue optimization opportunities.
- Implemented several utility tools using Node.js for developer productivity and workflow automation.

### SOFTWARE DEVELOPMENT INTERN

Techlogix Pakistan (Pvt.)

Lahore, Pakistan  
(Jul 2024 – Aug 2024)

- Developed backend features in .NET Core and frontend interfaces in AngularJS.
- Collaborated with the team to deliver project milestones on time.

## 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 with help of NLP and RAG for text generation and semantic analysis.
- Features: Personalized Career Advice, Context-Aware Job Recommendations, Skill Assessment.

### DCACNet-CD | CNN, ATTENTION CONDENSER, AUGMENTATION, FASTAPI

(Apr 2025)

- This project is a deep learning model for efficient skin lesion classification using custom CNN.
- Achieved 92% classification accuracy through transfer learning and data augmentation techniques.

### HWCS | KNN, PYTHON, GLCM, DJANGO

(Apr 2024)

- Handwriting-based writer identification system, achieving 96% accuracy through optimized KNN classification.
- Integrated the trained model into a Django web application, enabling seamless handwriting recognition.

## Technical Skills

**Languages & Frameworks:** C++, C#, Python, React, Angular, .NET Core, Django, Node.js, React Native

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

**Cloud & DevOps:** Docker, GitHub Actions, GCP

**Data Analytics:** Airbyte, DBT, Snowflake, Metabase, Spark, Power Bi

## Career Interests

Software Development

Machine Learning

App Development

Data Analytics

Data Engineering