

# Muhammad Umar Nawaz Janjua

Software Engineer

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A versatile software engineer specializing in leveraging Python for AI solutions. Proficient in a wide range of web technologies, including front-end development with ReactJS and Next.js, as well as back-end development with Express.js, FastAPI, and Flask. Experienced of working with both relational and non-relational databases, and adept at deploying web applications on various cloud platforms. Additionally, I have experience with both open and closed-source large language models (LLMs), have worked with Retrieval-Augmented Generation (RAG) applications, and possess a strong understanding of natural language processing (NLP). Committed to continuous improvement and dedicated to delivering top-quality user experiences.

## WORK EXPERIENCE

**Modern Intelligent Solutions | حلول الذكاء** • 05/2024 - Present  
Saudi Arabia

Led a team of AI engineers to develop advanced conversational AI and chatbot solutions, resulting in a 40% increase in customer satisfaction for clients. Utilized large language models (LLMs) boosting product efficiency by 70%.

AI/ML lead • Full-time

**Voilabs • France** 11/2023 - 03/2024

Engineered web applications using Next.js, integrating machine learning models to enhance user personalization, resulting in a 15% increase in user retention. Trained and fine-tuned transformer models, which improved model accuracy by 18% for text classification tasks.

AI engineer • Part-time

## CERTIFICATIONS

### ML specialization

Stanford Online and DeepLearning.ai

### Frontend Developer Specialization

Meta

### Mathematics for ML and DS

DeepLearning.ai

## AWARDS & SCHOLARSHIPS

Runner-up Stable Code 24hr hackathon by Stability.ai &

## SKILLS

### Languages & Frameworks:

- Express.js
- FastAPI
- Flask
- JavaScript
- NestJS
- Next.js
- Node.js
- Python
- ReactJS

### AI/ML Tools:

- LangChain
- LLMs
- NLP
- PyTorch
- TensorFlow

### Databases:

- MongoDB
- PostgreSQL

### Other:

- AWS
- Linux
- System Design

## EDUCATION

### BS(hons) in Software Engineering

Bahria University

Pakistan

GPA: 2.81

09/2020 - 07/2024

**lablab.ai**

Stability.ai

## PROJECTS

### MedAltrix (AI powered mental wellness application)

Developed a Next.js-based web application leveraging generative AI (Stable Diffusion, GPT-3.5) and text-to-speech (Eleven Labs) to create personalized meditation experiences.

Implemented a community feature showcasing user sessions and a credit system, increasing user engagement.

### CourseGen (AI powered educational platform)

Created a Next.js web application utilizing LLMs, LangChain, and vector databases to generate personalized courses.

## VOLUNTEERING & LEADERSHIP

**Lablab.ai**

10/2023 - Present

Technical Mentor and Judge