MUHAMMAD HUZAIFA

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OBJECTIVE

I am an Aspiring Backend Developer with strong Database Management skills seeking an Job position to leverage my skills in Python development, Computer Vision, and Machine Learning. I am committed to applying my theoretical knowledge in practical environments and contributing to innovative projects that drive growth and technological advancements.

SKILLS

- Proficiency in the Programming language
- Software Development
- Machine Learning and Data Science
- Data Analysis
- Testing and Debugging
- Software Development
- **Backend Development:** FastAPI, REST APIs, JWT auth, background tasks, Pydantic validation.
- **Database Management:** PostgreSQL, schema design, JSONB, Alembic migrations, indexing, upserts, query optimization; tools: psql, pgAdmin.

TOOLS AND SOFTWARE

- MATLAB
- ISE Design
- DEVC++
- Spyder
- Visual Studio
- PyCharm

PROGRAMMING LANGUAGES

- Python
- C++
- C
- Node JS
- Assembly Language

EXPIRENCES

- I am currently working part-time at Lancers Private Limited, applying and refining my software development and machine learning skills on active projects.
- Hands-on experience in software development with a focus on Python and related frameworks.
- Practical knowledge of machine learning concepts and their application in real-world projects.
- Skilled in additional programming languages including C++, .NET, and C#.
- Strong problem-solving abilities with a continuous drive to learn and adapt to new technologies.

PROJECTS

ForeverBook — AI-Powered Story Saga Platform (FastAPI, SQLAlchemy, PostgreSQL, OpenAI)

- **Production-grade backend:** Shipped a clean, JWT-secured FastAPI + SQLAlchemy service with typed Pydantic schemas and PostgreSQL migrations (Alembic).
- **Database-first design:** Engineered JSONB-driven models, composite/covering indexes, and safe upserts—cutting duplicates and keeping writes idempotent.
- **Reliability under LLM noise:** Built strict-JSON parsing + prompt-repair with multi-step fallbacks to keep story plan/episode generation resilient.
- **Smart UX accelerators:** Added "Instant Chapters/Episodes" endpoints and a History API (per-user read progress) for near-instant bookshelf views.
- **Governed content:** Enforced age gating (via DOB validation) and consistent titling (3–4 word book names) across plans/episodes for platform-wide coherence.

Automated Video Generation Software

- Text-to-Image Automation Architect
- Video Creation Innovator
- Advanced Prompt-to-Video Generation Platform Seamless Integration of AI Models for Automated Video Content Creation

YouTube Automation

- Boosted YouTube channel growth through strategic automation, increasing   engagement and revenue
- Optimized video content workflow with AI-driven automation, enhancing audience retention and views
- Leveraged SEO, AI, and automation to maximize YouTube reach and subscriber growth
- Developed and managed high-performing YouTube channels with data-driven automation strategies

Computer Vision

- The system first looks for a face in a camera
- It looks at special features of your face, like the distance between your eyes, the shape of your nose, and more.
- The system compares this face with other faces it already knows to see if it matches.
- If it finds a match, it tells you who the person is or confirms that it's the right face.
- A secure and scalable database to store face embeddings

CERTIFICATION

- *Robotics* – National Vocational and Technical Training Commission (NAVTTC)
- *Blockchain* – National Vocational and Technical Training Commission (NAVTTC)
- *Programming for Everybody* (*Getting Started with Python*) – University of Michigan (Coursera)
- *Python Data Structures* – University of Michigan (Coursera)
- *Exploratory Data Analysis for Machine Learning* – IBM (Coursera)
- *Creative Writing: The Craft of Plot* – Wesleyan University (Coursera) — *Ongoing*

ACHIEVEMENTS

- I was successfully selected for admission to Military College Jhelum in 2017 after clearing all the required tests.
- Awarded a medal in the International Kangaroo Linguistic Contest (IKLC)
- Won a gold medal in hockey.
- Possess physical agility with expertise in table tennis and badminton.
- Accomplished Speaker

EDUCATION

National University of Technology　　　　　　　**Islamabad, Pakistan**

Bachelor's in computer engineering　　　　　　　　　　　　　　Oct 2022 – Present

GPA Last Semester:- 3.5   CGPA :- 3.1   Ongoing Semester:- Sixth

Military College Jhelum   Jhelum, Pakistan

Intermediate in Computer Sciences Jan 2017- July 2022

ACTIVITIES AND INTERESTS

Travelling, Cricket, Hockey, Table Tennis Badminton.