Arman Ashraf

Backend AI Engineer | Lahore, Pakistan

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🪪 SUMMARY

Full-Stack AI Engineer with **2+ years of experience** designing and deploying **production-grade AI systems** using **FastAPI, Python, and OpenAI Agents SDK**. Specialized in **multi-agent architectures, RAG pipelines, vector search, and async AI workflows**. Proven track record of building **APIs**, automating complex pipelines, and delivering end-to-end AI products across **e-commerce, chatbots, and video generation platforms**.

🧠 TECHNICAL SKILLS

Languages: Python, JavaScript

Backend & APIs: FastAPI, REST APIs, AsyncIO, SQLModel, API Design, MVC Architecture

AI / ML: Agentic SDK, Multi-Agent Systems, Retrieval-Augmented Generation (RAG), NLP, Prompt Engineering

Databases: PostgreSQL, Pinecone, Vector Databases

Frontend: Next.js, React, Tailwind CSS

DevOps & Tools: Docker, Git, CI/CD (basic), Linux

Soft Skills: Effective Communication, Problem- Solving, Critical Thinking, Creativity, Time Management

💼 PROFESSIONAL EXPERIENCE

Full-Stack Developer – AI Hairstyle Checker, Self-Employed   Nov 2025 – Present
- Developed an **AI-powered virtual hairstyle try-on system** for realistic user previews.
- Built a recommendation engine based on **user preferences and facial context**.
- Delivered a full-stack solution with **FastAPI backend** and **Next.js frontend**.
- **Tech**: Python, FastAPI, Next.js, Docker

AI Developer – Dream Interpretation Assistant, Freelance   Sep 2025 – Nov 2025
- Built an NLP-based system converting **Arabic dream narratives** into structured interpretations.
- Designed pipelines for **symbol extraction, emotion detection, and meaning generation**.
- Integrated **text-to-image**, narration, and video generation into a seamless automated workflow.
- **Tech:** Python, FastAPI, OpenAI API, NLP, Prompt Engineering.

Full-Stack Developer-Chatbot integration, Self-Employed   Jan 2025 – Aug 2025
- Developed an **AI-driven e-commerce system** with product recommendations, order tracking, complaint management, and visual search.
- Built an **AI chatbot** using **RAG (Pinecone)**, improving response accuracy and reducing irrelevant replies.
- Implemented **visual product search**, significantly reducing manual product classification.
- Designed **scalable REST APIs** with FastAPI and PostgreSQL, handling concurrent user requests efficiently.
- **Tech:** FastAPI, Python, Next.js, OpenAI Agents SDK, Pinecone, CLIP, Docker.

AI Developer & Project Founder, Self-Employed   Jul 2024 – Jun 2025
- Founded and built an **agentic AI platform** that automatically generates **Shorts** from simple story prompts.
- Designed a **multi-agent architecture** (Story Agent, Image Prompt Agent, Sound Design Agent).
- Built **async pipelines** for image generation, TTS, and video composition, improving throughput by **~45%**.
- Built scalable **FastAPI REST APIs** and integrated with a **Next.js frontend**.
- Containerized services with **Docker** for deployment and portability.
- **Tech:** Python, FastAPI, OpenAI Agents SDK, TTS, MoviePy, Next.js.

Full-Stack Developer, Freelance   Jul 2023 – Jun 2024
- Delivered **responsive UIs and secure APIs** across multiple projects.
- Built applications with **React, Next.js, Tailwind CSS, FastAPI, Python**.
- Ensured **frontend performance and backend scalability**.
- **Tech:** HTML, CSS, JavaScript, React, Python, FastAPI, Next.js, Tailwind CSS.

📁 PROJECTS

AI-Powered E-Commerce Application ⧉
Full-stack platform with AI chatbot, RAG, visual search, order tracking, and complaints handling.

AI Hairstyle Checker ⧉
Virtual hairstyle preview system using AI-based image processing.

Agentic AI Video Generator ⧉
Multi-agent system generating vertical videos with narration, images, and music using async pipelines.

AI Live Interviewer ⧉
Real-time AI interview simulator with adaptive questions, performance analytics, and instant PDF/Markdown report generation

🎓 EDUCATION

BS MATHEMATICS, University of Gujrat   Sep 2018 – Nov 2022 │ Sialkot, Pakistan
- Strong foundation in **algorithms, logic, and problem-solving**
- **Silver Medal** for outstanding academic performance and dedication.
- **Certificate of Excellence** for exceptional performance and professional character.

📑 CERTIFICATES

- Google IT Automation with Python ⧉
- Python for Everybody Specialization ⧉
- Mathematics for Machine Learning ⧉
- Meta Front-End Specialization. ⧉
- Prompt Engineering for Developers ⧉
- Generative AI for Everyone ⧉
- Computational problem solving. ⧉

📚 COURSES

Agentic AI Engineer, Presidential Initiative for Artificial Intelligence & Computing (PIAIC)

AI Robotics Training, NAVTTC Pakistan (Government of Pakistan)

🎸 INTERESTS

Passionate Goal: Dedicated to becoming a skilled **AI Engineer and Data Scientist**, with strong programming and analytical expertise.

Learning: Continuously improving by keeping up with the latest in **AI, Data Science, programming, and backend technologies**.

Problem-Solving: Focused on building **innovative, efficient, and scalable AI and data-driven solutions** for practical applications.