Arman Ashraf

Backend AI Engineer | Lahore, Pakistan

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🪪 SUMMARY

Backend AI Engineer with over two years of experience in **FastAPI**, multi-agent pipelines, and **RAG** systems. Proven ability to design and deploy efficient, production-ready AI solutions that automate complex workflows. Successfully founded and built an **Agentic** AI platform that produces YouTube Shorts from simple story prompts, fully automating the content creation pipeline. Skilled in building scalable APIs and integrating AI agents to power applications for e-commerce, chatbots, and video automation.

🧠 TECHNICAL SKILLS

Languages: Python, JavaScript

Frameworks: FastAPI, Next.js, Tailwind CSS

AI/ML: OpenAI Agents SDK, RAG, NLP, Prompt Engineering

Databases: PostgreSQL, SQLModel, Pinecone, Vector Database

Tools: Docker, Git

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

💼 PROFESSIONAL EXPERIENCE

Dream Interpretation Assistant, Freelance   Sep 2025 – Oct 2025

- Designed an **AI system** converting Arabic dream narratives into structured insights and cinematic video stories.
- Built **NLP pipelines** for extracting symbols, emotions, and meanings; integrated text-to-image generation.
- Delivered a **seamless pipeline** combining narration, visualization, and video generation.
- **Tech:** Python, FastAPI, OpenAI API, NLP, Prompt Engineering.

Full-Stack Developer & AI Agent Engineer, Self-Employed   Jan 2025 – Aug 2025

- Developed a **complete AI-powered e-commerce application** with product recommendations, order tracking, complaint management, and visual search.
- Integrated **AI chatbot** using OpenAI Agents SDK with **RAG (Pinecone)** for accurate responses.
- Built **visual search with CLIP embeddings**, enabling product matching and reducing manual classification
- Designed and deployed scalable **backend APIs** with FastAPI and Docker; integrated with Next.js frontend.
- **Tech:** FastAPI, Python, Next.js, OpenAI Agents SDK, Pinecone, CLIP, Docker.

AI Developer & Project Founder, Self-Employed   Jul 2024 – Jun 2025

- Founded **SnuggleFable**, an agentic AI platform producing **YouTube Shorts** from simple story prompts.
- Built a **multi-agent pipeline** (Story Agent, Image Prompt Agent, Sound Design Agent, Voice, Composer) with OpenAI SDK.
- Implemented **image generation, TTS, and video composition** with async pipelines for efficiency.
- **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

Al-Powered E-Commerce Application ⧉
Full-stack platform with Al chatbot, RAG, visual search, order tracking, and complaints. (FastAPI, Next.js, Pinecone, Docker)

Agentic Al Video Generator ⧉
Multi-agent pipeline generating vertical videos with narration, images, and music. (FastAPI, OpenAl Agents SDK, MoviePy, Next.js)

Al Photo Editing Companion ⧉
Al-powered Photo editing tool with modern frontend. (Next.js, Prompt Engineering)

🎓 EDUCATION

BS MATHEMATICS, University of Gujrat   Sep 2018 – Nov 2022 | Sialkot, Pakistan

- Specialized in advanced algorithms for precise problem-solving and developed strong math-driven programming proficiency.
- **Silver Medal** for outstanding academic performance and dedication.
- **Certificate of Excellence** for exceptional performance and professional character.

🗂 CERTIFICATES

- Meta Front-End Specialization. ⧉
- Generative Al for Everyone ⧉
- Computational problem solving. ⧉
- Python for Everybody Specialization ⧉
- Mathematics for Machine Learning ⧉
- Prompt Engineering for Developers ⧉

📚 COURSES

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

Al 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.

🌐 LANGUAGES

Urdu — Native / Fluent

English — Professional Proficiency