Arman Ashraf

Backend AI Engineer

🔗 portfolio

✉ armanashraf015@gmail.com

in LinkedIn   ⭘ GitHub

📞 +92 3021636805

🪪 Summary

Highly motivated Backend API Engineer and Agentic AI Developer with a strong background in mathematics and hands-on experience designing and delivering production-ready REST APIs, AI-driven agent workflows, and retrieval-augmented systems. Expert in Python, FastAPI, asynchronous architectures, the OpenAI Agents SDK, and visual search solutions (CLIP + Pinecone). Passionate about building autonomous systems, scalable AI workflows, and robust pipelines that power intelligent, production-grade products.

</> Technical Skills

Python | AI Agents | RAG |
Nextjs | FastAPI | Database |
Pydantic | SQLModel | Docker

💼 Professional Experience

Full-stack AI-Powered Developer
Self-Employed(01/2025 – present)

- Led backend API development (FastAPI) for product catalog, cart, checkout, and order tracking, and built secure authentication & authorization workflows for customers and admins.
- Integrated an AI-powered chatbot using the OpenAI Agents SDK with RAG support for company documents and product FAQs.
- Designed and implemented a visual search pipeline using CLIP for image embeddings and Pinecone for vector similarity search.
- Deployed the platform using Docker and managed CI/CD workflows to Vercel and Hugging Face Spaces.

Tech: FastAPI, Python, Next.js, Tailwind, Docker, CLIP, Pinecone, SQLModel

AI Developer & Project Founder — SnuggleFable
Self-Employed(01/2025 – present)

- Designed and implemented an end-to-end agentic AI platform that converts a simple story theme into a ready-to-publish vertical video (YouTube Shorts).
- Built a modular multi-agent pipeline using the OpenAI Agents SDK: Story Agent, Image Prompt Agent, Sound Design Agent, Voice Module, and Final Composer.
- Implemented image generation, TTS, and video composition modules, orchestrated with asynchronous pipelines for concurrent asset generation.
- Applied advanced prompt engineering

Tech: Python, FastAPI, OpenAI Agents SDK, Docker, TTS, MoviePy, ffmpeg, Next.js (frontend)

Full-Stack Developer
Self-Employed(01/2023 – present)

- Used HTML, CSS, JS, and React for UI.
- Integrated jQuery, Bootstrap, and Material UI.
- Mastering React Hooks for state management.
- Expert in functional components
- Python, FastAPI, Next.js, and Tailwind CSS.

📇 Certificates

- Meta Front-End Specialization Developer ⧉
- Python for Everybody Specialization ⧉
- Generative AI for Everyone ⧉
- Mathematics for Machine Learning ⧉
- Computational problem solving. ⧉

📚 Courses

Agentic AI Engineer
Presidential Initiative for Artificial Intelligence & Computing

AI Robotics Training
NAVTTC Pakistan (Government of Pakistan)

🏅 Awards

Awards and Recognition: ⧉
- Medal for dedication to academics
- Certificate for outstanding performance and exceptional character.

🧠 Soft Skills

Communication │ Creativity │

Problem-Solving │

Critical Thinking │

Time Management

🌐 Languages

Urdu │ English

📁 Projects

AI-Powered E-Commerce Application ⧉
Backend APIs with AI chatbot, RAG, and visual search.

Agentic AI Video Generator ⧉
Full-stack agent-driven workflow

E-Commerce UI Design Project: ⧉
Intuitive UI for Modern Shopping.

Weather App Project: ⧉
Real-time Weather Information at Your Fingertips.

🎓 Education

BS MATHEMATICS
University of Gujrat ⧉

09/2018 – 11/2022 | Sialkot, Pakistan

CGPA: 3.74 / 4.0— Silver Medal Winner

- Advanced algorithms for precise problem-solving.
- Math-driven coding proficiency.
- Expert in logical, systematic solutions.
- Application of advanced problem-solving concepts.
- Innovative solutions through mathematical insights.

🎸 Interests

Passionate Goal:
Dedicated to becoming an AI engineer and proficient programmer.

Continuous Learning:
Committed to ongoing study and skill development in the field.

Innovative Problem Solver:
Driven to find creative solutions, leveraging AI and programming skills.