

SHAHABAS AMAN

Python AI Developer

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PROFILE SUMMARY

Python AI Developer with 1.5 years of overall software development experience, specializing in Generative AI, LLMs, RAG systems, AI agents, and intelligent automation. Hands-on experience building AI-powered applications and code-based AI automations using Python, LangChain, LangGraph, MCP, and LLM APIs, along with designing workflow automation using n8n and Make.com. Experienced in integrating REST APIs, databases, webhooks, JSON, third-party services, and business applications to solve real-world business requirements. Experienced in researching and experimenting with emerging AI tools and technologies, working directly with business owners and professionals to identify automation opportunities, and taking solutions from concept and prototyping through development, testing, deployment, optimization, and support.

TECHNICAL SKILLS

Languages:	Python, JavaScript, TypeScript
Backend & APIs:	Django, FastAPI, REST API Design, SQLAlchemy, Celery, Redis
Generative AI:	LLMs, RAG, AI Agents, LangChain, LangGraph, MCP, Prompt Engineering
Automation:	n8n, Make.com, Zapier, Webhooks, JSON, REST APIs, Third-Party APIs, SaaS Integrations
Data Science & ML:	NumPy, Pandas, Seaborn, scikit-learn, PyTorch, TensorFlow/Keras, OpenCV, NLP
Frontend & Mobile:	React, Flutter, Tailwind CSS, Bootstrap
Databases & Vector DBs:	PostgreSQL, MySQL, pgvector, ChromaDB, Pinecone, Supabase
Cloud, DevOps & Tools:	Docker, AWS, CI/CD, Nginx, Gunicorn, Uvicorn, Git, GitHub, GitLab

PROFESSIONAL EXPERIENCE

AI Data Science Developer & Trainer

GALTech Technologies | Infopark, Koratty, Thrissur

Jul 2026 - Present

- Design and build AI and data science solutions tailored to client requirements, spanning machine learning, NLP, LLM, **RAG** and AI-agent workflows
- Develop **Python**-based AI applications, **LangChain/LangGraph** agent pipelines, **MCP** integrations and **n8n** automation workflows for business use cases
- Conduct discovery sessions with professionals and business owners to understand workflows, identify automation opportunities, and recommend practical AI solutions
- Build and integrate **n8n** workflows with third-party services, assist with integrations, and develop multi-workflow automations based on business requirements
- Run practical, project-based training sessions for professionals and business owners on AI, data science, automation and agent development

Associate Software Developer

Regional Technologies | Kozhikode

May 2025 - Apr 2026

- Delivered web and AI projects using **Django** and **FastAPI**
- Developed backend APIs, database integrations and application features across web, AI and **Flutter** mobile projects
- Implemented, debugged and optimized application functionality across development and deployment workflows
- Owned end-to-end project delivery, from API development and database integration through to deployment
- Mentored students and interns on full-stack and machine learning application development

Full Stack Web Development Intern

Inventron Technologies and Business Solutions LLP | Bangalore

Feb 2025 - Mar 2025

- Built full-stack web applications using HTML, CSS, JavaScript, Bootstrap, Node.js, Express.js and EJS, including RESTful routes and responsive interfaces
- Used Git for version control and deployed projects to Vercel and Netlify
- Debugged issues and improved UI responsiveness and cross-browser compatibility

PROJECTS

RAGDocs - Document Processing & Semantic Evaluation System

Code: [GitHub Backend](#) | [GitHub Frontend](#)

Tech Stack: FastAPI, PostgreSQL, pgvector, Redis, Celery, SQLAlchemy, Hugging Face Embeddings, Gemini API, React, TypeScript, Docker

- Built a multi-user **RAG** platform for PDF ingestion, semantic retrieval and evidence-grounded question answering using **FastAPI**, **PostgreSQL/pgvector** and LLMs
- Implemented asynchronous document processing using **Celery** and **Redis**, with PDF text-extraction repair, heading-aware page-preserving chunking and embedding-based retrieval
- Developed dense, lexical and hybrid retrieval using **Reciprocal Rank Fusion (RRF)**, with second-stage **reranking** and evidence-first source attribution
- Built a **React/TypeScript** frontend with **JWT** authentication, workspace and knowledge-base management, and **WebSocket**-based live indexing updates

Earlier versions: **V2 (cloud)** with pgvector, Supabase Storage and Docker; **V1 (local)** with ChromaDB and MySQL

New Flyworld International

Live site: [newflyworld.in](#)

Tech Stack: FastAPI, PostgreSQL, SQLAlchemy, Redis, Tailwind CSS, HTMX, Jinja2, Docker, AWS

- Independently designed, built and deployed the company's travel web platform from scratch on **AWS**
- Deployed on **AWS EC2** using **Docker Compose**, **Gunicorn/Uvicorn** and **Nginx** with HTTPS, with media storage on **Amazon S3** via **boto3**
- Built the platform using **FastAPI**, **SQLAlchemy** and **PostgreSQL 16**, with **Jinja2**, **HTMX** and **Tailwind CSS** for the frontend
- Developed destinations, holiday packages, visa information, blogs, testimonials and customer enquiry modules managed through an admin CMS
- Implemented **Redis** caching with in-memory fallback, automated daily encrypted **PostgreSQL** backups to **S3**, and load-tested the platform using **Locust**

ADDITIONAL PROJECTS

AI Sales & Course Recommendation Automation

Tech Stack: **n8n**, AI Agents, RAG, Pinecone, Gemini, Gmail

- Built an AI-powered **n8n** workflow that analyzes leads, retrieves course information from **Pinecone**, and recommends suitable programs
- Developed an AI sales email workflow with personalized drafts, structured outputs, conversation memory and **Gmail** integration
- Implemented **human-in-the-loop** review where an AI router processes feedback, revises drafts, and sends approved emails

Artwork Similarity & Novelty Scoring Platform (Computer Vision)

Code: [GitHub](#)

Tech Stack: Django, PostgreSQL/pgvector, PyTorch, CLIP (ViT-B/32), NumPy, scikit-learn

- Built a full-stack artwork similarity and novelty platform using **CLIP** embeddings stored in PostgreSQL/pgvector
- Implemented cosine-similarity retrieval, dynamic novelty scoring, similarity alerts and moderation workflows

Face Recognition Attendance & Emotion Analytics System

Tech Stack: Django, OpenCV, face_recognition, Keras/TensorFlow, CNN, NumPy

- Built a real-time attendance system using face recognition with embedding-based identity matching and CNN-based emotion classification
- Developed processing and analytics workflows for face detection, recognition, emotion inference and backend logging

EDUCATION

Bachelor of Computer Applications (BCA)

East West Group of Institutions, Bangalore University

2022 - 2025