

Fatemeh Abidizadegan

Python Developer | AI Applications, Automation & Backend

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Professional Summary

Master's graduate in Intelligent Systems with hands-on experience building AI-powered backend applications using Python, FastAPI, RAG, OpenAI API, Qdrant, Docker, Redis, and AWS EC2. Experienced in developing REST APIs, automation workflows, testing, deployment, and monitoring. Passionate about building reliable backend services and practical AI applications that solve real problems.

Skills

AI & Generative AI: Retrieval-Augmented Generation (RAG), OpenAI API, Azure OpenAI, Azure AI Language, Prompt Engineering, Semantic Search, Embeddings, Qdrant, LLM Evaluation, Source-Grounded Answers

Backend Development: Python, FastAPI, Pydantic, REST APIs, Async Programming (asyncio), SQLAlchemy, PostgreSQL, JWT Authentication

Testing: Pytest, Unit Testing, API Testing, RAG Evaluation

Cloud & DevOps: Docker, Docker Compose, AWS EC2, Azure (App Service, Blob Storage), Linux, Redis, Nginx, Git, GitHub Actions (CI/CD)

Monitoring & Observability: Prometheus, Grafana, Loki, Promtail

Projects

PolicyGuard AI github.com/Fatemeh127/policyguard-ai

Production-style RAG platform for document Q&A — Python, FastAPI, Qdrant, Redis, Docker, AWS EC2, OpenAI API, Streamlit

- Built an end-to-end RAG pipeline including ingestion, chunking, embeddings, vector search, retrieval, LLM response generation, and source citations.
- Improved repeated-query performance using Redis caching, reducing latency from 3.71s to under 0.01s on cache hits.
- Developed REST APIs and AI-assisted document retrieval workflows with source-grounded responses.
- Added role-based access control (RBAC), request tracking, rate limiting, and monitoring to support reliable operation.
- Implemented automated testing with Pytest and a RAG evaluation pipeline for answer quality, source grounding, and latency.
- Containerized the platform with Docker and deployed it on AWS EC2 behind Nginx with SSL.
- Configured GitHub Actions CI, Prometheus metrics, Grafana dashboards, and Loki/Promtail log aggregation.

SmartReview github.com/Fatemeh127/smart-review

AI-powered customer-review analyzer — FastAPI, Streamlit, Azure AI Language, Azure OpenAI, Azure Blob Storage, Docker

- Built a FastAPI and Streamlit customer-review analyzer using Azure AI Language for sentiment analysis and key-phrase extraction, Azure OpenAI for negative-review replies and summaries, and Azure Blob Storage for analysis results.
- Added Pydantic input validation, SlowAPI rate limiting, Pytest tests, and Docker/Docker Compose containerization for backend and frontend services.
- Configured a GitHub Actions CI/CD workflow to run tests, build a Docker image, and prepare automated deployment to Azure App Service.

Order Food AI github.com/Fatemeh127/order_food

AI-powered food ordering and food-analysis backend — FastAPI, PostgreSQL, SQLAlchemy, Docker Compose, JWT, Gradio

- Designed REST APIs and database models using FastAPI, SQLAlchemy, and PostgreSQL.
- Implemented JWT authentication and organized backend modules for users, authentication, food APIs, and AI features.
- Added Alembic database migrations and containerized the application with Docker Compose.
- Integrated Gradio with an AI-based food-analysis module.

Work Experience

Python Developer – Parto Pars, Shiraz, Iran

Oct 2018 – Dec 2020

- Developed Python applications, scripts, and automation tools based on project requirements.
- Tested, debugged, and maintained applications during development.
- Collected, cleaned, and transformed structured data from multiple sources.
- Wrote SQL queries against relational databases to support data access and management.
- Collaborated with developers, analysts, and QA engineers throughout development and testing.

Education

Master of Engineering, Intelligent Systems

Dec 2025

Novia University of Applied Sciences, Vaasa, Finland

Bachelor of Engineering, Computer Software Engineering

Jun 2014

Shiraz Pasargad Higher Education Institute, Shiraz, Iran

Languages

• **Persian** [Native] • **English** [Professional Working Proficiency] • **Finnish** [Basic, A1–A2]