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Alborz Province

Amin Ettefagh
Software Engineer

Website

Linkedin

Github

PROFESSIONAL SUMMARY

Data Engineer and Backend & AI Engineer with over 3 years of hands-on experience designing data-intensive systems, backend platforms, and AI-powered automation solutions. Specialized in building scalable ETL pipelines, secure backend services, and AI-integrated systems across enterprise environments. Strong background in data integration, backend architecture, and applied AI, with a deep interest in cloud-native infrastructure and large-scale system design.

CORE SKILLS

- **BackEnd :** Python, Django, Flask, FastAPI, RESTful APIs, Authentication, VBA Excel, Logging
- **Data Engineering :** ETL Pipelines, SSIS, Data Modeling (Fact/Dimension), CDC, SQL Server, Oracle, MySQL, PostgreSQL, Pandas, NumPy, Excel, Access
- **Artificial Intelligence :** Generative AI, LLMs, RAG, NLP, OCR, Computer Vision, CNNs, STT, Image, Voice & Video Processing
- **Automation & DevOps :** IIS, Docker, CI/CD, Tekton, WinSCP, Secure File Synchronization, Git, n8n
- **FrontEnd :** React, Next, JavaScript, TypeScript, HTML, CSS, Tailwind CSS, SEO

PROFESSIONAL EXPERIENCE

Data Engineer | Backend Developer

Dadepardazan Bonyanava
Tehran, Iran
Apr 2025 – Present

Designed and implemented enterprise-scale data pipelines to ingest, validate, transform, and integrate heterogeneous data from Excel, Access, SQL Server, Oracle, MySQL, and REST APIs. Built ETL workflows using SSIS and native ETL platforms (including Setareh), significantly reducing manual data operations. Designed fact and dimension schemas with historical tracking and validation layers to support business analytics and auditing. Developed secure backend and AI-driven automation systems, including an internal RAG-based chatbot integrated with Jira APIs for automated ticketing. Implemented automated reporting systems using Python and VBA, enabling dynamic data collection and structured Excel outputs. Developed CDC and database synchronization jobs between heterogeneous database systems.

Artificial Intelligence Engineer | Backend Developer

SepandBI
Tehran, Iran
Mar 2024 – Mar 2025

Worked on backend development and AI integration for verification and intelligent user-facing products. Designed backend services to orchestrate requests between frontend applications, internal AI models, and external LLMs via APIs. Developed secure and scalable APIs for financial verification and loan advisory workflows. Contributed to multi-modal biometric verification systems, including OCR, face matching, liveness detection, voice and video analysis, and anti-spoofing mechanisms. Implemented scoring logic, audit logging, secure evidence storage, and containerized deployment using Docker on IIS.

Backend Developer

Developed and maintained backend services using Django and Django REST Framework. Designed and implemented RESTful APIs and optimized database performance. Debugged and resolved production issues and collaborated with frontend teams to ensure system stability. Gained hands-on experience with scalable backend architecture, authentication, and agile development workflows.

SELECTED PROJECTS

- **Enterprise Data Integration & Automated Pipeline**
  Large-scale ETL system integrating multi-source business data with schema detection, validation layers, and historical tracking.

- **AI-Powered Telegram Chatbot Platform**
  Telegram bot integrated with GPT and Gemini APIs, featuring prompt optimization, credit-based usage, referral system, admin panel, and image processing capabilities.

- **Secure File Synchronization & Deployment Automation**
  Python-based system monitoring GitHub repositories and synchronizing file changes across secure operational environments in near real-time.

- **Database Design Wizard & Visual Modeling Tool**
  Web-based wizard for designing databases in Persian and English with SQL and visual outputs for SQL Server, Oracle, MySQL, and PostgreSQL.

- **Multi-Modal Biometric Verification & Liveness Detection**
  AI-driven identity verification system using video, voice, face matching, STT, and deepfake detection.

EDUCATION

B.Sc. in Software Engineer

Academic Projects:

- Gastric Cancer Detection using Machine Learning
- Bad Credit Customer Prediction using Behavioral ML Models
- Data Mining and Information Retrieval Systems
- CPU Architecture Design and Simulation
- Teaching Assistant

LANGUAGES

- **English (Limited working proficiency)**
- **Persian (native)**