

Mohammad Halakoei

Senior Backend Developer — Python · Django · Data Science · AI

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PROFESSIONAL SUMMARY

Senior Backend Developer | ~4YOE (+ freelance projects) | AI & Data Systems

Stack: Django · DRF · FastAPI · PostgreSQL · Redis · Celery · Docker · GitLab CI/CD · REST API Design

Built: OCR automation pipeline (95%+ accuracy) · AI international trade assistant (500+ queries) · Financial dashboards adopted company-wide

TECHNICAL SKILLS

CORE BACKEND: Django · Django REST Framework (DRF) · FastAPI · Flask · Python · Celery · REST API · Microservices · PHP · Go

DATABASE & CACHE: PostgreSQL · MySQL · Redis · MongoDB · MariaDB · SQL Optimization

DEVOPS & TOOLS: Docker · GitLab CI/CD · GitHub Actions · Git · Linux · Bash · Server Management · VPS

DATA & AI: Pandas · NumPy · OpenCV · OCR · Plotly/Dash · Power BI · Machine Learning · Data Visualization

TESTING & QUALITY: pytest · Unit Testing · Code Review · Agile/Scrum

FRONTEND (familiar): React · HTML/CSS · TailwindCSS · JavaScript · Bootstrap

WORK EXPERIENCE

Senior Backend Developer — Python · Django · Data Science

Manzoomeh Ari Consulting Co. | Tehran | May 2024 — Present | **Full-time**

- **40% faster API response** — redesigned endpoint architecture with DRF + PostgreSQL indexing and Redis caching layer, applying scalable REST API design patterns
- **3 executive-level financial dashboards delivered** — built with Plotly/Dash and Data Science pipelines (Pandas, NumPy); adopted company-wide for management decisions
- **60% fewer deployment errors** — containerized all services with Docker and established GitLab CI/CD pipelines for stable, automated rollouts
- **85% reduction in manual data entry** — engineered AI-powered OCR and image processing pipeline in Python, cutting processing time from hours to minutes
- **80%+ test coverage maintained** — implemented pytest unit test suite across core modules; contributed to Agile/Scrum sprints and conducted regular code reviews
- **Cross-functional AI delivery** — collaborated in interdisciplinary teams bridging web development, data engineering, and ML to ship end-to-end solutions

KEY PROJECTS

Employee Time & Project Management System

[Django · DRF · React · Docker · PostgreSQL · REST API]

Full-stack delivery with Django REST backend + React frontend. Containerized via Docker for scalable deployment; adopted by entire company staff within first sprint.

AI-Based International Trade Assistant

[Django · Celery · PostgreSQL · ML · REST API]

End-to-end AI assistant for cross-country trade relationship analysis. Handled 500+ analytical queries with async Celery task management and scalable response architecture.

Commercial Data Structuring & Dashboard Development

[[FastAPI](#) · [PostgreSQL](#) · [Plotly/Dash](#) · [Python](#)]

Designed normalized data models in PostgreSQL and built interactive executive dashboards via FastAPI + Plotly/Dash; reduced report generation time by 70%.

Automated Data Extraction from Commercial Images

[[Python](#) · [OCR](#) · [OpenCV](#) · [PostgreSQL](#)]

Engineered OCR pipeline extracting structured data from commercial product images with 95%+ accuracy; integrated directly into production database with scalable, fault-tolerant architecture.

AI-Powered Commercial Assistant (Chatbot)

[[Python](#) · [Django](#) · [AI/ML](#) · [REST API](#)]

Developed backend architecture for a chatbot-based AI commercial assistant. Implemented AI models and domain-specific data processing to support business decision-making.

EDUCATION

M.Sc. Control Engineering

University of Qom, Qom | GPA: 16.32/20

B.Sc. Control Engineering

Persian Gulf University, Bushehr | GPA: 16.65/20

LINKS & LANGUAGE

Website: [Mohamadhalakoei.ir](https://mohamadhalakoei.ir) | GitHub: github.com/eric-py | Telegram: [@ichbineric](https://t.me/ichbineric) |

English: Professional working proficiency