

Morteza Hashemabadi

Senior Full-Stack Engineer (Django | Next.js | React | PostgreSQL)

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Mashhad, Razavi Khorasan, Iran

Professional Summary

Senior Full-Stack Engineer with 4+ years of experience designing and building scalable systems with Python, Django, and Django REST Framework, alongside modern frontend applications with React 19 and Next.js. Strong expertise in PostgreSQL performance optimization, API security (JWT, RBAC, CORS/CSRF), microservice architecture, and caching with Redis. Track record of technical leadership (founder/tech lead) in multi-tenant SaaS system design, delivering a complete e-commerce platform with an AI-powered customization feature, and actively leveraging generative AI tools throughout the development lifecycle to increase delivery speed and quality.

Technical Skills

Backend: Python, Django, Django REST Framework, FastAPI, Flask, Microservices Architecture, Celery, WebSocket, GraphQL

Database & Caching: PostgreSQL (Indexing, Partitioning, Query Optimization), MySQL, MongoDB, Redis

Frontend: React.js (v19), Next.js, Redux Toolkit, TypeScript, JavaScript, Tailwind CSS, HTML5/CSS3

DevOps & Tools: Docker, Nginx, Linux, Git/GitHub, GitHub Actions, CI/CD, Cloudflare, Cron, Kafka

Concepts & Practices: REST API Design, System Design, RBAC, OOP, Design Patterns, TDD, Agile/Scrum

AI: AI-Assisted Development (Claude, ChatGPT), Prompt Engineering for coding and debugging, integrating generative AI services into production products

Professional Use of AI (AI-Augmented Development)

- Daily use of large language models (Claude, ChatGPT) as a technical assistant to accelerate the development cycle: writing and debugging code, code review, and technical documentation
- Applying AI during architectural decision-making: evaluating alternative design patterns, assessing technical trade-offs, and validating solutions before implementation
- Designed and implemented an AI-powered image generation feature for end customers (Iranlivan.ir) — from microservice architecture to quota management and inter-service security
- Operates on the principle of "AI as an accelerator, not a substitute for engineering judgment": every AI output is reviewed, tested, and validated against team coding standards

Professional Experience

Founder & Technical Lead | [Month Year] – Present

Multi-tenant E-commerce SaaS Platform (Resident at a Science & Technology Park growth/accelerator center)

- Founded and led the technical direction of a multi-tenant e-commerce SaaS startup from concept through MVP; accepted and resident at a Science & Technology Park growth/accelerator center
- Led a two-person technical team (frontend developer and UI/UX designer) and owned product, technical, and roadmap prioritization decisions
- Architected the backend from scratch with a strict workspace isolation pattern to eliminate cross-tenant data leakage risk

- Implemented Role-Based Access Control (RBAC) and designed domain-based storefront resolution for full tenant separation at the public access layer
- Designed a template-based storefront architecture and a modular service-layer architecture to reduce coupling and improve testability
- Implemented an event-driven order lifecycle (domain events) and an audit logging system for traceability of sensitive administrative actions

Technical Founder & Full-Stack Developer | Iranlivan.ir | [Month Year]

Online cup/drinkware store with AI-powered design customization

- Designed and built a complete e-commerce platform from scratch within a compressed timeline, covering both backend and frontend architecture
- **Backend:** Built with Django/DRF across 8 apps (passwordless auth via OTP + JWT, catalog with dynamic attribute-based variants, tiered pricing and discount codes, cart/checkout, verified-purchase reviews, gallery, ticketing, and AI image generation)
- **Frontend:** Built with Next.js 16, React 19, TypeScript, and Tailwind CSS v4; implemented auth, catalog, cart, checkout, user dashboard, AI designer page, and an infinite pan/zoom interactive gallery canvas
- **AI Integration:** Designed and built a standalone microservice (Node.js/Express) to securely bridge an AI image-generation service, with monthly user quota management and inter-service security
- Managed full infrastructure including deployment, database configuration, and production environment setup

Backend Developer | Nikan Groups (Remote) | 08/2025 – 11/2025, Germany

Bizhub and Edumeer Projects

- Architected and optimized scalable backend systems for the Bizhub and Edumeer platforms using Django REST Framework
- Improved API response times by approximately 40% by resolving N+1 query issues, refactoring serializers, and optimizing data access with `select_related` and `prefetch_related`
- Designed complex PostgreSQL database schemas utilizing advanced indexing strategies (B-Tree, GIN) to optimize query execution plans in high-traffic scenarios
- Implemented Redis caching strategies for frequently accessed data and computationally expensive operations
- Hardened API security by enforcing JWT authentication, RBAC, and strict input validation to mitigate CORS/CSRF vulnerabilities
- Collaborated closely with the frontend team on API contract design, reducing latency and improving developer experience

Senior Full-Stack Developer | Arsin | 08/2024 – 08/2025, Mashhad

Enterprise Accounting Platform

- Engineered a comprehensive accounting platform backend with Django and REST API; PostgreSQL schema design with indexing (B-Tree, GIN), JSONField, and table partitioning for high-volume financial data
- Implemented JWT authentication, background processing with Celery, and dynamic Excel reporting
- Built conditional/nested serializers, a custom logging system, and full CORS/CSRF protection
- Developed the frontend with React 19, Redux Toolkit, React Hook Form, and Yup for state management and form validation
- Optimized rendering performance with `React.memo`, `useMemo`, and `useCallback`; implemented Error Boundaries
- Managed full Linux deployment (Nginx, Supervisor, Unicorn, Celery, Cron) and hardened security with Cloudflare (DNS, DDoS protection)

Full-Stack Developer | Niracub Clinic | 08/2023 – 08/2024 (1 year 1 month), Tehran

Custom Clinic Management CRM

- Designed and launched a custom CRM & ERP system centralizing operations, finance, HR, and customer relations
- Built an intelligent appointment system with automated scheduling based on therapist availability and room capacity

- Integrated multi-channel communication bots (Telegram, WhatsApp, SMS) to automate reminders and marketing campaigns
- Developed analytics dashboards for revenue, staff productivity, and customer retention metrics

AI Specialist & Backend Developer | ai-trade Startup | 08/2022 – 08/2023 (11 months), Mashhad

- Developed scalable RESTful APIs and a microservices architecture using Django and Flask
- Optimized high-load database interactions and connection handling with SQLAlchemy
- Implemented Redis for caching and message queuing to improve system availability
- Analyzed financial data with Pandas/NumPy to support algorithmic trading decision systems

Automated Gold (XAUUSD) Trading System | Personal Project | [Month Year]

- Designed and built a modular algorithmic trading system for gold (XAUUSD) using Python and MetaTrader 5
- Developed a ZigZag-style swing tracker with signal confirmation via SMA(20) and the AW Turtles Indicator on the M15 timeframe
- Designed a file-based CSV bridge architecture between an MQL5 Expert Advisor and Python analysis scripts
- Built a backtesting engine on historical M1 data to evaluate strategy performance before live execution
- Developed several similar trading strategies in Pine Script for the TradingView platform
- Centralized strategy configuration and parameters to increase flexibility and testability

Education

B.Sc. in Computer Engineering – Software | Khayyam Non-Profit University | 2016 – 2021

Languages

English: Upper-Intermediate (professional/technical)