

Hooman Javanbakht

Senior Backend Engineer & AI Lead

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PROFESSIONAL SUMMARY

Senior Backend Engineer and AI Systems Lead with 9+ years of experience designing and scaling production-grade systems using Python, FastAPI, and cloud-native architectures. Proven track record of building AI-powered platforms, optimizing backend performance, and leading engineering teams. Strong expertise in LLM-based systems, distributed architectures, and high-availability APIs. Experienced in delivering measurable business impact through automation, performance optimization, and intelligent system design.

TECHNICAL SKILLS

Programming Languages	Python (expert), JavaScript, Go
Frameworks	FastAPI, Django, LangChain, VueJS, React Native
AI / LLM	LangChain, OpenAI API, multi-model orchestration (GPT-4, Claude, Gemini), TensorFlow
Databases	PostgreSQL, MySQL, MSSQL, MongoDB, Firestore, Redis
Cloud & DevOps	AWS (Lambda, EC2, API Gateway, ECR), GCP (GKE, Firestore), Docker, Kubernetes
Messaging	Kafka, RabbitMQ
Observability	structlog, Prometheus, distributed tracing, API performance monitoring
Data Science	Pandas, NumPy, financial data analysis, data visualization
Languages	English (Professional) · Farsi/Persian (Native)
Education	Bachelor of Electronics Engineering – Azad University Tehran - 2014 – 2019

PROFESSIONAL EXPERIENCE

Senior Software & AI Developer · SUBBD

Apr 2024 – Present | Remote / Full-Time

- Led a team of 5–8 engineers across backend and AI tracks — conducting weekly code reviews, defining API contracts, managing sprint planning, and mentoring junior developers on FastAPI best practices and LLM integration patterns.
- Architected an AI-powered content creation platform for digital content creators, integrating 3+ LLM providers (GPT-4, Claude, Gemini) via LangChain with dynamic model routing based on task type and cost optimization.
- Designed and built the AI chatbot engine supporting real-time streaming responses, context-aware conversation management, and multi-turn dialogue — reducing average content creation time for creators by an estimated 60%.
- Implemented end-to-end observability using structlog for structured logging and custom API monitoring dashboards tracking latency, error rates, and model performance — cutting mean time to detect (MTTD) incidents by ~50%.
- Owned AWS infrastructure including EC2, Lambda, and API Gateway deployments with Docker-based CI/CD pipelines, ensuring 99.9%+ uptime for the production platform.

Stack: FastAPI, Python, LangChain, OpenAI API, AWS (EC2, Lambda, API Gateway), Docker, PostgreSQL, structlog

Url: subbd.com - linkedin.com/company/subbd

Tech Lead · ARIB Real Estate Development

2025 – Present | Dubai, UAE / Contract

- Defined and owned the full technical roadmap for a Dubai real estate developer — making architecture decisions, selecting vendors, and coordinating a team of 3–5 developers across web, backend, and CRM integrations.

- ▶ **Designed and deployed FastAPI microservices to AWS** (EC2, Lambda, API Gateway) with Cloudflare DNS management and Nginx as reverse proxy — achieving zero-downtime deployments and sub-200ms API response times.
- ▶ **Built an automated lead attribution system** using DoubleTick (WhatsApp Business) with keyword-based bot flows and Meta CTWA ad auto-tagging, enabling full-funnel visibility from ad click to CRM lead entry.
- ▶ **Established structured logging and monitoring** across all services using structlog and cloud-native tooling, enabling real-time alerting and audit trails for compliance.
- ▶ **Conducted code reviews and enforced coding standards** across the team, reducing production bug rate and improving deployment confidence.

Stack: FastAPI, AWS (EC2, Lambda, API Gateway), Nginx, Cloudflare, PostgreSQL, Docker, structlog, WhatsApp Business API
Url: arib.ae - linkedin.com/company/aribdevelopments

CTO · Azimzadeh Carpet Trading LLC

Jul 2023 – Present | Dubai, UAE / Contract

- ▶ **Designed and deployed an AI-powered carpet authenticity verification service** on AWS Lambda with a custom subdomain (authenticity.azimzadeh.ae), integrating Cloudflare DNS and API Gateway for secure, scalable access.
- ▶ **Built e-commerce and CRM integrations** processing and standardizing 1,000+ bilingual Persian/English product records for web import with automated data validation pipelines.
- ▶ **Implemented AI-driven product description generation** and inventory management automation, reducing manual cataloging effort by an estimated 70%.

Stack: FastAPI, AWS Lambda, API Gateway, Cloudflare, PostgreSQL, Docker, Python, AI/ML
Url: azimzadeh.ae - linkedin.com/company/azimzadehcarpet

Senior Python Developer · Mofid Securities

Feb 2022 – Aug 2023 | Tehran, Iran / Full-Time

- ▶ **Led architecture refactoring** from monolith to microservices for a real-time stock market transaction platform — increasing scalability by 50% and reducing system downtime by 70%.
- ▶ **Designed a fair complaint dispatch algorithm** for the CRM team, reducing missed complaints by 30% and improving resolution SLA compliance.
- ▶ **Optimized PostgreSQL queries and Redis caching strategy** across the back-office panel, delivering 60% faster page rendering and increasing service provider acceptance rate by 40%.
- ▶ **Mentored 3 mid-level developers** on Python best practices, query optimization, and microservices design patterns through pair programming and structured code reviews.
- ▶ **Led Python 3.7 → 3.11 upgrade** across all production services with zero downtime, coordinating testing and rollout across multiple teams.

Stack: FastAPI, Django, PostgreSQL, MSSQL, Redis, Kafka, Kubernetes, Python 3.11
Url: emofid.com - linkedin.com/company/mofidsecurities - bourseview.com - bv.emofid.com

Mid-Level Python Developer · Asiatech Co.

Jul 2020 – Aug 2021 | Tehran, Iran / Full-Time

- ▶ Developed and maintained RESTful and SOAP APIs, improving system functionality and reliability.
- ▶ Extended Odoo CRM with custom modules and refactored legacy .NET services to Django REST Framework.

Stack: Python, Django, Odoo, PostgreSQL, MSSQL, Docker
Url: asiatech.ir - linkedin.com/company/asiatechco

Python Developer · Bale Messenger

Mar 2018 – Mar 2020 | Tehran, Iran / Full-Time

- ▶ Dockerized 5+ production projects, cutting developer environment setup time and standardizing deployment workflows.
- ▶ Debugged and resolved production issues across backend services and REST APIs in a high-traffic messaging platform.

Stack: Python, PostgreSQL, Docker, GitLab, REST API