

Ali Mohammadi *Senior Backend Developer*

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Summary

Senior Backend Developer with over 10 years of experience building reliable and scalable backend systems in Python. Experienced in developing modern APIs using FastAPI and Flask. Proficient in designing microservice-based architectures and large-scale system design. Skilled in both relational and NoSQL databases, message brokers, and distributed data pipelines. Strong background in data engineering practices and practical application of Large Language Models (LLMs) to backend and data-driven solutions. Adept at containerization and Linux environments. Passionate about clean code, collaborative development, and solving complex backend challenges with efficient technical solutions.

Professional Experience

Senior Backend Developer

Citronity 📄

11/2021 – present
Vancouver (Remote)

- Developed an energy-saving system tailored for electrical companies, leveraging IoT technologies to optimize energy usage.
- Spearheaded the development of a device management system specifically for WATTMORE Solar, enabling efficient monitoring and control of IoT devices.
- Contributed to the architecture and development of a modular IoT platform consisting of multiple microservices and SDKs for edge devices and cloud services.
- Implemented intelligent recommendation algorithms to optimize battery usage schedules and advise customers based on regional electricity tariffs and seasonal demand trends.
- Created a Modbus-based edge device simulator to validate end-to-end IoT system functionality prior to hardware deployment.
- Developed advanced multi-level dashboards for both enterprise managers and site-level users to visualize, control, and report on energy operations across distributed infrastructures.

Lead Software Engineer

Sanay System Development 📄

07/2011 – 11/2021
Zanjan

- Led a team in designing and deploying a scalable data analysis and reporting system for managing large-scale datasets.
- Designed and developed a customizable business intelligence dashboard tailored to individual user needs.
- Contributed to a big data analysis project focusing on Telegram, Twitter, and Instagram using advanced software analysis and AI techniques.
- Participated in the Lotus Parsian investment fund project.
- Developed the social network "CommentNet" to gather news, opinions, and social media interactions.
- Designed and implemented a Telegram channel/news reader bot.
- Developed electronic payment software for retail stores to streamline payment processes and improve customer experience.

Senior Fullstack Developer

Novin Bulud System

11/2017 – 03/2020
Zanjan (Part-time)

- Designed and developed the "Vira Dictionary," a speech-enabled dictionary app.
- Built the portfolio manager system for "Sarmaye and Danesh" brokerage.
- Co-developed the "Elite Network" social networking platform for elite collaboration.
- Created the "Zanjan Petrochemical Android Software," tailored for the Zanjan Petrochemical Company.

- Led the project management and development of the "Driver's Guide Educational Software."
- Developed software for the 8th International Conference for conference management and participant interaction.
- Designed and developed the website for "Bagh Honar" Advertising Company.

Senior Fullstack Developer

Amnafzar Gostare Aftab

12/2014 – 11/2017

Zanjan (Part-time)

- Led the backend and frontend development of a national-scale monitoring system for the Ministry of Health. The system enabled health officials to record site visits, interventions, and operational data with real-time access and validation, significantly enhancing reporting accuracy, accountability, and centralized decision-making.
- Designed and deployed a smart urban mobility platform for municipal clients, enabling users to rent and manage electric scooters through IoT-connected stations. The system, commissioned by Shiraz Municipality, included real-time tracking, usage analytics, and a management dashboard for operators and administrators.
- Built and deployed a provincial environmental monitoring platform for the Zanjan Environmental Protection Agency. The system provided a structured method for collecting and managing inspection data across industrial and agricultural sites, improving environmental compliance and reporting workflows.
- Designed and developed the Wordonet language learning platform, offering interactive vocabulary exercises, progress tracking, and user management for language learners and educators.

Skills

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|--------------|-----------------|-------------|-----------------|
| • Python | • FastAPI | • Flask | • System Design |
| • PostgreSQL | • MySQL | • SQLite | • Linux |
| • MongoDB | • Elasticsearch | • Logstash | • Kibana |
| • Redis | • RabbitMQ | • Kafka | • MQTT |
| • Docker | • Git | • Cassandra | • Grafana |
| • AWS Lambda | • AWS EC2 | • AWS S3 | • AWS SQS |
| • Nginx | • Web Scraping | • LLM | • Autogen |

Languages

- | | | |
|-----------|-----------|---------------|
| • English | • Persian | • Azerbaijani |
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Education

MS in Software Engineering

Zanjan University

BS in Software Engineering

Payam Noor University

Certificates

- | | |
|---|--|
| • Python – HackerRank 🔗 | • SQL – HackerRank 🔗 |
| • Rest API – HackerRank 🔗 | • Data Science & Machine Learning – Udemmy 🔗 |