Ali Asghari
Python Software Engineer

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Location: Tabriz, Iran (open to relocate)

Professional Summary

With over **six years** immersed in **high-performance** backend development, I specialize in crafting robust systems using Python, Django, and FastAPI. I'm passionate about building scalable **microservices** and optimizing **AI-driven** search, consistently delivering results that handle millions of daily API requests. My expertise extends to **asynchronous** programming, vector databases, and cloud architectures, where I thrive on pushing the limits of performance and **scalability** to create intelligent and **reliable solutions**. I excel in collaborative **Agile** environments, partnering with product managers, designers, and data scientists to bring impactful products to life. I'm also committed to fostering a culture of continuous learning, **mentoring** junior engineers, and optimizing development workflows to drive **team success**.

Technical Skills

Languages & Frameworks: Python, Django, DRF, Flask, FastAPI, Celery, RabbitMQ
Databases: PostgreSQL, MySQL, MongoDB, Redis
DevOps & Monitoring: Docker, CI/CD, GitHub Actions, Prometheus, Grafana
AI & Machine Learning: Transformer models, RAG, Ollama, Pytorch

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Experience

AI Software Engineer, G2Tech – Tabriz, IR (Nov 2024 – Present)
*G2Tech is an **EdTech startup** building AI-powered learning solutions.*
- Implemented **transformer-based** question generation model with **Ollama** achieving **86% relevancy score**.
- Built real-time **Q&A system using RAG** handling **100+ student** queries daily.
- Created a **custom knowledge base** from video transcripts using **pgvector** and embedding models, **improving retrieval accuracy**.
- **Containerized** microservices architecture with **Docker** reaching **99% system availability**.

Senior Software Engineer, Nobitex – Remote (Apr 2021 – Aug 2023)
*Nobitex is the **leading cryptocurrency** exchange in Iran.*
- Architected a financial reporting system using **PostgreSQL** and **Django**, processing **2,000+ monthly reports**.

- Designed and implemented RESTful APIs with **FastAPI**, efficiently **handling 3 million** daily requests.
- Developed an **internal admin dashboard** with React and **Django**, increasing operational efficiency by 30%.
- Built an **automated report storage platform** leveraging **cloud storage**, managing **90+ daily reports**.
- **Optimized system performance** by refining database **queries** and **caching**, resulting in a **20% productivity improvement**.

Software Engineer, Snappfood – Tehran, IR (Oct 2019 – Feb 2021)
*Snappfood is Iran's largest online **food delivery platform**.*
- Developed a **high-performance delivery service** using **Flask** and **Redis**, supporting **3,000+ daily** orders.
- Implemented a **financial transaction system** with **PostgreSQL** and **Celery**, managing payments for **1,000 weekly users**.
- Created a **KPI monitoring system** with **Grafana** and **Prometheus**, reducing operational inefficiencies by 40%.
- Designed an **asynchronous event-driven** architecture using **RabbitMQ**, improving real-time operations.

Software Engineer Intern, Pezeshkekhoob – Tehran, IR (Jan 2019 – Sep 2019)
*Pezeshkekhoob is a **healthcare startup** providing digital medical solutions.*
- Developed RESTful APIs using **DRF**, handling **1.5 million monthly requests**.
- Built a **cost-effective monitoring system** with **Prometheus** and **Grafana**, reducing monthly expenses by 70%.
- Migrated **PHP** platform to **Django**, increasing **availability by 10%**.

Education

Tarbiat Modares University, MS in Computer Science (Sep 2020 – Sep 2022)

- Thesis: Visibility based path planning algorithms for UAVs and UGVs in Coverage problem
- Coursework: Pattern Recognition, Machine Learning, Computational Geometry, Large Datasets.

Projects

Tic Tac Chaos (github.com/adamvizly/tic-tac-chaos)

Stack: FastAPI, React, Websocket, Docker

- An ultimate tic tac toe game with special pieces that have abilities.

Commit Craft (github.com/adamvizly/CommitCraft)

Stack: TypeScript, JavaScript

- AI-powered commit message generator extension for VSCode.