Emad Ehsanrad

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Senior Software Engineer

SUMMARY

Senior Software Engineer with over 7 years of experience building scalable, user-focused web applications in Agile environments. Skilled in Python, JavaScript, and frameworks like Diango and FastAPI, I've delivered efficient, high-performance solutions for 100,000+ users. Consistently worked in international environments with cross-functional teams to drive growth through innovative solutions. Committed to continuous learning and adapting to emerging technologies. Active open-source contributor.

WORK EXPERIENCE

Senior Software Engineer, troweb

Remote - Dubai, UAE

AI powered knowledge management system (KMS) for businesses.

August 2023 - Present

- Developed AI-driven solutions (RAG pipelines, agentic workflows) to enhance automation and intelligent decision-making.
- Engineered scalable microservices using FastAPI and gRPC, ensuring high-performance inter-service communication.
- Designed and implemented an **event-driven** architecture leveraging **Kafka** and **Kubernetes**, reducing latency by 30%.
- Secured **SOC 2 Type 2** certification through collaborating with compliance teams to ensure product **quality** and **security**.
- Mentored new engineers through a **custom onboarding program**, accelerating team integration and fostering a culture of knowledge-sharing.

Software Engineer, edSPIRIT

Remote - Dubai, UAE

Cloud-based Open edX solutions, providing hosting, consulting, and customizations.

May 2021 - August 2023

- Led the design and development of a scalable SaaS platform, adopted by 200+ academic institutions and universities.
- Supervised seemless migration of infrastructure from AWS EKS to in-house clusters, ensuring a highly available and resilient environment with 99.99% uptime.
- Recognized as a **core contributor** in the **Open edX community**, an open-source learning platform used by millions.
- Developed a real-time KPI dashboard using OpenTelemetry, Grafana, and custom data pipelines, improving operational visibility by 40%, and pushing the culture of making data-driven decisions.
- Partnered with the sales team in client meetings, translating complex technical concepts into actionable solutions, leading to improved customer satisfaction and faster deal closures.

Software Engineer, Pubnito

Content-based platforms and services provider.

Remote - Toronto, Canada

May 2019 - April 2021

- Implemented multi-tenancy support, enhancing scalability and reducing operational costs by 30%.
- Devised a web scraping tool that automated 100% of the EPUB creation workflow, saving our content team 3+ months of work and securing a partnership with Rice University.
- Integrated SSO authentication with Keycloak, boosting security, system efficiency, and enhancing user experience.
- Migrated monolithic applications to a containerized environment using **Docker** and **Kubernetes**, improving deployment efficiency and system reliability.
- Empowered all teams with workshops, boosting skill development and applying new techniques in daily tasks.

EDUCATION

Kermanshah University of Technology

Kermanshah, Iran

Bachelor of Science in Telecommunication Engineering

September 2012 – May 2016

CERTIFICATES

AWS Cloud Practitioner, Amazon Web Services

February 2025

Neo4j Certified Professional, Neo4j Graph Academy

January 2025

SKILLS

Languages: Python, JavaScript, TypeScript, SQL, GraphQL

Databases: MySQL, PostgreSQL, MongoDB, ClickHouse, Neo4J

Soft Skills: Team work, Problem-solving, Adaptability, Communication

Frameworks: Django, Flask, FastAPI, Next.js

Tools: Kubernetes, Helm, ELK, Docker, GitHub Actions, GitLab CI, Jenkins, Prometheus, Grafana, OpenTelemetry, Kafka, RabbitMQ

LANGUAGES

English: Full professional proficiency