

Emad Ehsanrad

Software Engineer

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Experienced software engineer with more than 6 years of expertise in developing scalable applications used by over 100 thousand users. Proficient in multiple programming languages and frameworks. Consistently worked in international environments with cross-functional teams to drive growth through innovative solutions. Committed to continuous learning and adapting to emerging technologies. Good team player and active open-source contributor.

WORK EXPERIENCE

Senior Software Engineer, edSPIRIT, Dubai, UAE

May 2021 - Present

- Led the design and development of a scalable and optimized SaaS platform, resulting in a client base of more than 200.
- Recognized as a core contributor in the Open edX community, an open-source learning platform used by millions.
- Supervised infrastructure transition (EKS to in-house clusters) and major upgrades with 99.99% uptime.
- Collaborated with the sales team in client meetings, providing technical expertise to support product demonstrations and address customer inquiries.
- Designed an onboarding program for new engineers, ensuring a smooth transition and rapid integration into the team.
- 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.

Software Engineer, Pubnito, Tehran, Iran

May 2019 - April 2021

- Implemented multi-tenancy support, enhancing scalability and reducing operational costs by 20%.
- Integrated authentication and other services with SSO with Keycloak, enhancing security and system efficiency.
- 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.
- Migrated the monolithic application 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.

Backend Engineer, InstructHub, Tehran, Iran

September 2017 - January 2019

- Refactored a large legacy codebase from Python 2 to 3, resulting in system performance and using modern libraries.
- Worked closely with stakeholders to gather and analyze requirements for developing software solutions.
- Optimized database queries and implemented caching strategies, reducing average API response time.
- Configured & managed CI/CD pipelines, reducing the number of deployment errors & enhancing deployment efficiency.
- Implemented centralized logging and monitoring using ELK stack, replacing legacy practices and reducing issue detection time.

EDUCATION

Bachelor of Science, Telecommunication Engineering

September 2012 – May 2016

Kermanshah University of Technology, Kermanshah, Iran

SKILLS

Languages: Python, TypeScript, JavaScript, Dart, SQL

Frameworks: Django, FastAPI, Flask, NextJS, Flutter

Databases: PostgreSQL, MySQL, MongoDB, ClickHouse, neo4j

Cloud Platforms: Amazon Web Services (AWS)

Tools: Kubernetes, Docker, GitLab CI, GitHub Actions, Jenkins, ElasticSearch

LANGUAGES

English: Full professional proficiency (C1)

German: Elementary proficiency (A1)