



# Emad Ehsanrad

Software Engineer



✉ emad.ehsanrad@gmail.com    /emadehsanrad    /CodeWithEmad

## SUMMARY

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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 open-source contributor.

## EXPERIENCE

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- **edSPIRIT** Software Engineer Dubai, UAE May 2021 - Present  
*A cloud-based company experienced in delivering Open edX solutions. Hosting, consulting, and customizations.*
  - Led the design and development of a scalable SaaS platform, resulting in a client base of more than 200.
  - 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 & rapid integration to the team.
  - 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.
- **Pubnito** Fullstack Python developer Tehran, Iran May 2019 - April 2021  
*An international company, experienced in creating content-based platforms and services.*
  - Implemented multi-tenancy support, enhancing scalability and reducing operational costs by 20%.
  - 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 authentication and other services with SSO with Keycloak, enhancing security and system efficiency.
  - 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.
- **InstructHub** Backend Developer Tehran, Iran September 2017 - January 2019  
*Cutting-edge company specializing in delivering innovative e-learning solutions.*
  - Refactored a large legacy codebase from Python 2 to 3, resulting in system performance & 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

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- **Kermanshah University of Technology** Kermanshah, Iran  
*Bachelor of Science in Telecommunication Engineering* September 2012 – May 2016

## SKILLS

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**Languages:** Python, JavaScript, TypeScript, Dart, SQL.      **Tools:** Kubernetes, Docker, GitLab CI, Jenkins.  
**Databases:** MySQL, PostgreSQL MongoDB, ClickHouse, Neo4J.      **Frameworks:** Django, Flask, NextJS.

## LANGUAGES

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**English:** Full professional proficiency (C1)      **German:** Elementary proficiency (A1)      **Persian:** Native