Emad Ehsanrad

Senior Software Engineer

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SUMMARY

Experienced software engineer with **7+ years** of expertise in developing **scalable applications** used by over **100,000 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**.

EXPERIENCE

- **Senior Software Engineer**, **edSPIRIT** 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 (**AWS 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 & 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**.

- **Software Engineer**, **Pubnito** Toronto, Canada   *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 **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 the 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.

- **Backend Engineer**, **InstructHub** 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 efficiency.
  - Implemented centralized **logging and monitoring** with **ELK stack**, reducing issue detection time **from days to hours**.

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 2017*
- **Neo4j Certified Professional**, Neo4j Graph Academy   *January 2025*

SKILLS

Languages: Python, JavaScript, TypeScript, SQL   **Databases**: MySQL, PostgreSQL, MongoDB, ClickHouse, Neo4J

Tools: Kubernetes, Helm, Docker, GitHub Actions, GitLab CI, Jenkins   **Frameworks**: Django, Flask, FastAPI, NextJS

Soft Skills: Team collaboration, Problem-solving, Adaptability, Communication   **Cloud Platforms**: Amazon Web Services (AWS)

LANGUAGES

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