Emad Ehsanrad

Senior Software Engineer

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SUMMARY

Software engineer with 6+ years of diverse software engineering experience with specialties in software architecture design, infrastructure operation, and backend development. Passionate about contributing to open-source and tech communities by sharing knowledge and experience.

EXPERIENCE

- **Notion Wave** — Dubai, UAE
  Software Engineer — *February 2022 - Present*
  - Led the design and development of edSPIRIT, a scalable SaaS Open edX platform, resulting in a client base of more than 200, boosting overall growth.
  - Architected and implemented a new billing and subscription system, enhancing the client's user experience and boosting the platform's reliability.
  - Built a custom solution for scaling down Kubernetes clusters to zero pods, slashing operational costs by 30%.
  - Designed a structured onboarding program for new engineers, ensuring smooth transition & clear goals.
  - Collaborated with cross-functional teams to develop and test web applications using Python and Django.

- **Avid Arvand** — Tehran, Iran
  Fullstack Python developer — *May 2019 - February 2022*
  - 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.
  - Automated EPUBs with web scraper, saving our team months & securing a partnership with Rice University.
  - Configured and managed CI/CD pipelines, improving application delivery time.
  - Empowered team with Python/Django workshops, boosting skill development.

- **InstructHub** — Tehran, Iran
  Backend Developer — *September 2017 - January 2019*
  - Architected and deployed scalable, high-availability systems on AWS utilizing EC2, S3, RDS, and VPC.
  - Worked closely with stakeholders to gather and analyze requirements for developing software solutions tailored to specific business needs.
  - Built backend logic for coding exercises and auto-grading systems, applying algorithms to evaluate code submissions in real-time.
  - Achieved 94% test coverage by increasing the use of automated testing.
  - Set up error logging and monitoring using tools like Sentry and ELK Stack, ensuring rapid issue identification.

EDUCATION

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

CERTIFICATES

- **Machine Learning with Python**, Coursera — *2024*
- **LPIC 1 & 2**, Go To Class — *2022*

SKILLS

Languages: Python, Typescript, Dart, SQL

Tools: Kubernetes, Docker, GitLab CI

Databases: MySQL, PostgreSQL, MongoDB

Frameworks: Django, Flask, NextJS, Flutter