KAMYAR MIRZAVAZIRI
Software Engineer

Favorite Tools

ABOUT ME

- 2+ years experience in enterprise companies, utilizing 15+ tools, provided a valuable insights into aspects of software engineering.
- The portfolio spanning small startup projects to highly-loaded enterprise apps, helps the development of full-stack apps and improvement and scale of existing ones.

CONTACT

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- GitHub
- GitLab
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EDUCATION

M.Sc., Computer Science
Sharif University of Technology
2022 - Present

B.Sc., Computer Science
University of Tehran
2017 - 2022

LANGUAGES

English
Can speak fluently

Farsi
Native speaker

WORK EXPERIENCE

MID-LEVEL SOFTWARE ENGINEER @ DIVAR
2022 - Present
The biggest Iranian classified ads platform, alternative for eBay in Iran.

`K8s` `Docker` `Gitlab CI` `Go` `Python` `Redis` `PostgreSQL` `MongoDB` `RabbitMQ` `Kafka` `Prometheus` `Grafana`

- Took a major role in redesigning the Submit micro-service from Python to Go and REST to gRPC, achieved the following.
  - 20% faster development.
  - 99.9% up-time.
  - Sub-100 ms response times (upper 99 percentile).
  - Average response size < 50 KiB (down from > 1 MiB).
  - A notable 10% reduction in call center load.
- Developed an auto-migrator to convert 250+ messy forms to new structured widget forms, estimated to reduce the initial development time by 5 months.
- Optimized the Post Stats micro-service, freeing up 24 CPU cores and 120 GiB of memory, resulting in a remarkable 66% reduction in consumed resources.
- Managed 5+ disaster, once recovered 85% of lost data, by writing a script to aggregate the data from action logs and restore data back to DB.

MID-LEVEL SOFTWARE ENGINEER @ AVISTOPIA
2021 - 2022
Learn-Compete-Work platform (startup).

`Docker` `Nginx` `GitHub Actions` `PHP` `JS` `MySQL` `Redis` `Twig` `Sass` `Prometheus` `Grafana`

- Led 3 engineers under Agile framework; together created a product now hosting 2000+ users and offering 60+ courses and workshops.
- Developed a complex registration service with features such as team registration, and installment payment plans, which attracted over 400 users in the initial days.
- Implemented a custom secure web-based media player using JS, to prevent paid course record leakages, resulting in a 50% reduction in such incidents.
- Led the development of XUA, a PHP ORM facilitating business complexities such as foreign keys and many-to-many relations, accelerated development by approximately 20%.

JUNIOR SOFTWARE ENGINEER @ DIGIKALA
2020 - 2021
The biggest E-commerce in Mena Region, alternative for Amazon in Iran.

`PHP` `Symfony` `JS` `MySQL` `Redis` `Twig`

- Implemented a queue management system for sellers, boosting satisfaction by an approximately 20%, faced challenges, such as the following.
  - Integrated the back-end API with third-party ticket-dispensing kiosks, collaborating closely with an external team.
  - Designed a complex state machine with 50+ states to ensure fair prioritization without compromising user satisfaction.
- Designed a warehouse aisle security tracking system with storage constraints (price, category, size), resulting in monthly savings of $100K.

VOLUNTEER EXPERIENCE

Chief Scientific Officer (CSO) — 2019 – 2020

Head of Software Squad — 2018 – 2019
Scientific Association of Computer Science, University of Tehran

- Managed 10+ workshops and courses, such as the first Flutter course in Iran with 60+ students.

Teaching Assistant
Department of Mathematics, CS, and Statistics, University of Tehran

- **Number Theory**
  - by Amir Ghadermarzi.
- **Foundations of Mathematics**
  - by Mojtaba Mojtahedi
- **Logic**
  - by Mojtaba Mojtahedi
- **Linear Algebra**
  - by Siamak Yassemi

Technical Manager — 2015 – 2021
Arithland Educational Center

- Implemented 4+ applications, turned the old-fashioned competitions into high-tech ones.

PUBLICATIONS

DIVISOR TOPOLOGIES AND THEIR ENUMERATION
Journal of Algebraic Systems · 2022
F. Esmaeeli, K. Mirzavaziri, M. Mirzavaziri

DOUBLE DERANGEMENT PERMUTATIONS
Open Journal of Discrete Mathematics (OJDM) · 2016
P. Daneshmand, K. Mirzavaziri, M. Mirzavaziri

A CHARACTERIZATION FOR 2-SELF-CENTERED GRAPHS
Seminarium Matematyka Dyskretna · 2015
K. Mirzavaziri, M. Mirzavaziri, M. H. Shekarriz

k-COMBINATIONS OF AN UNLABELLED GRAPH
Creative Mathematics and Informatics · 2015
M. R. Ebrahimi Vishki, Kamyar Mirzavaziri, Madjid Mirzavaziri

CERTIFICATES

Go (Intermediate) Certificate
HackerRank · 2023
Show credential

SQL (Advanced) Certificate
HackerRank · 2023
Show credential

Rest API (Intermediate) Certificate
HackerRank · 2023
Show credential

SKILLS

DEVOPS
Linux (Ubuntu) (6Y) · Docker (2Y) · Kubernetes (1Y) · GitHub Actions (1Y) · Gitlab CI (1Y) · Nginx (2Y) · Ansible (1Y)

DATABASES & QUEUES
MySQL (9Y) · Redis (3Y) · PostgreSQL (1Y) · MongoDB (1Y) · RabbitMQ (1Y) · Kafka (1Y)

LANGUAGES & FRAMEWORKS
Python (6Y) · Django (1Y) · Go (1Y) · PHP (9Y) · Symfony (1Y) · JavaScript (9Y) · Coq (1Y)

WEB
HTML (9Y) · Jinja (1Y) · Twig (2Y) · CSS (9Y) · Sass (1Y) · UIKit (1Y) · Bootstrap (9Y)

OTHER TOOLS
Prometheus (1Y) · Grafana (1Y)

MINOR ENCOUNTERS
WordPress (2Y) · UI/UX Design (Figma) (1Y) · Latex (8Y) · Flutter (<1Y) · Dart (<1Y) · Meta Spark (<1Y)

READS

- **Clean Code: A Handbook of Agile Software Craftsmanship**
  Robert C. Martin
- **Logical Foundations**
  Benjamin C. Pierce, et al.
- **Refactoring: Improving the Design of Existing Code**
  Martin Fowler, et al.

UNDERSTANDINGS

- **Data Structures & Algorithms**
- **Formal Languages & Compilers**
- **Functional Programming (λ-Calculus)**
- **Object-Oriented Programming**
- **Model–View–Controller Pattern**
- **Object–Relational Mapping Technique**
- **Git**
- **Network Sockets, TCP, UDP**
- **HTTP**
- **REST APIs**
- **Protobuf**
- **gRPC**