

KAMYAR MIRZAVAZIRI

Software Engineer

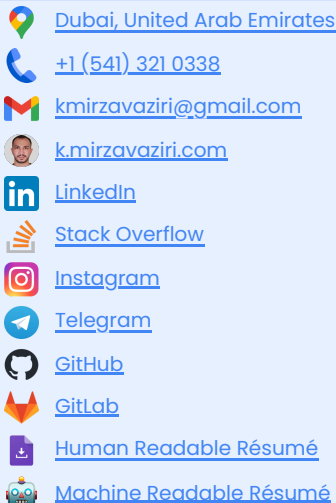
Favorite Tools



ABOUT ME

- 7+ years experience in software engineering, 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



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



SOFTWARE ENGINEER @ DIVAR

2022 - Present

The biggest Iranian classified ads platform, with over 60 million active users, alternative for eBay in Iran.



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.



FOUNDER & SOFTWARE ENGINEER @ AVISTOPIA

2021 - 2022

Learn-Compete-Work platform (startup).

Docker

Nginx

GitHub Actions

PHP

JS

MySQL

Redis

Twig

Sass

Prometheus

Grafana

- Launched a startup with near \$50K revenue in the first year, and growing from then.
- 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%.



SOFTWARE ENGINEER @ DIGIKALA

2020 - 2021

The biggest E-commerce in Mena Region with over 41 million active users, 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.



SOFTWARE ENGINEER @ ARITHLAND

2017 - 2021

An Educational Center promoting mathematics using creative methods.

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

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](#)

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

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**

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)

CERTIFICATES

Go (Intermediate) Certificate

HackerRank · 2023

[Show credential](#)

SQL (Advanced) Certificate

HackerRank · 2023

[Show credential](#)

Rest API (Intermediate) Certificate

HackerRank · 2023

[Show credential](#)

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.

