



# KAMYAR MIRZAVAZIRI

Software Engineer

Favorite Tools

LaTeX



## 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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[Stack Overflow](#)



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[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

- 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

- 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*

## UNDERSTANDINGS

- Data Structures & Algorithms**
- Formal Languages & Compilers**
- Functional Programming ( $\lambda$ -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)

### 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)

### MINOR ENCOUNTERS

**WordPress** (2Y)

**UI/UX Design (Figma)** (1Y)

**Latex** (8Y)

**Flutter** (<1Y)

**Dart** (<1Y)

**Meta Spark** (<1Y)

## BOOKS

### Read

- Clean Code: A Handbook of Agile Software Craftsmanship**  
*Robert C. Martin*
- Logical Foundations**  
*Benjamin C. Pierce, et al.*

### Reading

- The Go Programming Language**  
*Alan A.A. Donovan, Brian W. Kernighan*
- Refactoring: Improving the Design of Existing Code**  
*Martin Fowler, et al.*
- Site Reliability Engineering: How Google Runs Production Systems**  
*Betsy Beyer, et al.*

## CERTIFICATES

### Go (Intermediate) Certificate

*HackerRank · 2023*

[Show credential](#)

### SQL (Advanced) Certificate

*HackerRank · 2023*

[Show credential](#)

### Rest API (Intermediate) Certificate

*HackerRank · 2023*

[Show credential](#)