

































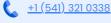
ABOUT ME

- 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 fullstack apps and improvement and scale of existing ones.

CONTACT



Dubai, United Arab Emirates



kmirzavaziri@gmail.com



k.mirzavaziri.com



<u>LinkedIn</u>



Stack Overflow



<u>Telegram</u>

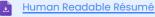


<u>GitHub</u>



GitLab







Machine Readable Résumé

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



Native speaker

WORK EXPERIENCE



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.
 - o 20% faster development.
 - o 99.9% up-time.
 - o Sub-100 ms response times (upper 99 percentile).
 - o Average response size < 50 KiB (down from > 1 MiB).
 - o 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





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, alternative for Amazon in Iran.

PHP Symfony JS MySQL Redis Twig



category, size), resulting in monthly savings of \$100K.

- Implemented a queue management system for sellers, boosting satisfaction by an approximately 20%, faced challenges, such as the following.
 - o Integrated the back-end API with third-party ticket-dispensing kiosks, collaborating closely with an external team.
 - o 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,



SOFTWARE ENGINEER @ ARITHLAND

2017 - 2021

An Educational Center promoting mathematics using creative methods.

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

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
 - o by <u>Amir Ghadermarzi</u>
- Foundations of Mathematics
 - o by Mojtaba Mojtahedi
- - o by <u>Mojtaba Mojtahedi</u>
- Linear Algebra
 - o by <u>Siamak Yassemi</u>

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**
- **Network Sockets, TCP, UDP**
- HTTP
- **REST APIS**
- **Protobut**
- aRPC

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)

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.