

# Amir Ehsandar

Tehran, Iran | [+989109403234](tel:+989109403234) | [ehsandaramir@gmail.com](mailto:ehsandaramir@gmail.com)

Having six years of work experience as a software engineer, I have a bachelor's degree in computer engineering from Iran University of Science and Technology (IUST). Hands-on experience with cloud native application design and development practices are parts of my skills.

**Technologies and techniques:** Go, Python, Postgresql, Redis, Rabbitmq, K8s, Gitlab CI, Sentry, Jaeger, PromQL, gRPC, REST

## Work Experience

### Divar - Classified Ads

Software Engineer | October 2019 – Present

[Divar](#) is the most popular classified ads platform in Iran having 40M+ MAUs and 600K+ new ads a day.

Designed and implemented various systems, maintained the most crucial system in Divar and also managed people in a period of time as follows:

Open Platform Team | Software Engineer

- Designed all the APIs and underneath integrations of the [Kenar product](#) which enables third party businesses to inter-operate with Divar.
- Implemented our innovation platform APIs integrated with a [key management system](#) which uses [OPA envoy plugin](#) and custom rules.
- Implemented Divar's OAuth system using [Hydra](#).
- Designed and implemented micro-frontend capabilities within our server-driven UI framework, collaborating with our design system owner and mobile application development teams.
- Enhanced our product's reliability and scalability with extensive use of code-gens and linters, namely [sqlc](#), [mockery](#) and [golangci-lint](#).

Submit Team | Tech Lead

- Improved the Apdex of our high throughput system, enhanced both uptime and response time for 999 quantiles through the use of telemetry and [tracing](#) tools and creative ideas to resolve spotted issues.
- Implemented circuit breaker and retry/backoff policy interceptors in our RPC library.
- Implemented custom gRPC endpoint resolver using kubernetes API server events.
- Designed and implemented our events library, employing type-safe code generators alongside Protobuf for serialization in order to facilitate the adoption of event-driven practices across all teams.
- Provided mentorship to numerous newly joined team members.

Review Team | Software Engineer

- Designed and implemented an idempotent and failure resilient system to apply the reviewer judgment on ads reliably and efficiently.
- Facilitated our data science pod to iterate over their versions of models effortlessly and reliably, being able to shadow test, ab-test and monitor live results.
- Integrated Airflow DAGs with production environment to help operation teams reevaluate published ads.

## Arkan Ara – Medical Equipment

Software Engineer | July 2017 – October 2018

- Designed and implemented a thermal printer driver with maximum precision and reliability.
- Developed an ECG configuration menu along with configuration storage.
- Improved software performance through the utilization of Valgrind and advanced Qt signal/slot usage practices.

## Education

### Iran University of Science and Technology (IUST)

Bachelor's in Computer Engineering | September 2016 – September 2021

Achieved a Bachelor's degree with a GPA of 3.42/4 from Iran University of Science and Technology (IUST). Collaborated with Dr. Etemadi as a mentor and lecturer in two Advanced Programming courses during [spring 2019](#) and spring 2020.

## Projects

### kvstore

[github.com/ehsundar/kvstore](https://github.com/ehsundar/kvstore) is a code generator to facilitate type-safe usage of Redis. It generates interfaces based on annotations on Protobuf messages and provides fast and efficient serialization, automatic human-readable key generation, forwards and backwards compatibility and typed keys and values.