

Amir Ehsandar

Software Engineer

Backend Software Engineer with seven years of experience specializing in Go and Python with Django. Proficient in PostgreSQL, Kubernetes and OpenTelemetry for monitoring. Possess strong problem solving abilities and effective communication skills, which enhance collaboration and drive the development of high-quality scalable software solutions.

PERSONAL DETAILS

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<i>LinkedIn</i>	linkedin.com/in/ehsandar

SKILLS

<i>Languages</i>	Go, Python, JavaScript, C++
<i>Data Technologies</i>	Postgresql, MongoDB, Redis, S3, RabbitMQ, Kafka
<i>Frameworks & Tools</i>	Kubernetes, Micro-Services, Django, gRPC,

WORK EXPERIENCE

Software Engineer

Oct 2019-present

Divar, Full-time

- Designed all the APIs and underneath integrations of the Kenar product which enables third-party businesses to securely interoperate with Divar.
- Implemented our innovation platform API integrated with an OPA key management system and Hydra OAuth2.
- Designed and implemented micro-frontend capabilities within our server-driven UI framework, collaborating with design team and mobile application teams.
- Enhanced our product's reliability and scalability with extensive use of code-gens and linters, namely sqlc, mockery and golangci-lint.
- 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.
- Implemented custom gRPC endpoint resolver using kubernetes API server events.
- Designed and implemented the events library, employing type-safe code generators and Protobuf for serialization.
- Provided mentorship to numerous newly joined team members.
- Designed and implemented an idempotent and failure resilient system to apply operators' requests 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 the production environment to help operation teams reevaluate published ads.

Software Engineer

July 2017 – Oct 2018

Arkan Ara, Part-time

- 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

BSc. Computer Engineering

2016 - 2021

Iran University of Science and Technology

Achieving a 3.42/4 GPA, implemented a basic DPDK application as my thesis project.

PROJECTS

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, forward and backward compatibility and typed keys and values.