

# Mustafa Sencer Özcan

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## EDUCATION

### BOGAZIÇI UNIVERSITY

BS IN MECHANICAL ENGINEERING

Jun 2017 | Istanbul, TR

## COURSEWORK

### UNDERGRADUATE

Dynamic Feedback Control Systems

Proprioceptive Feedback Systems

Mechatronics

Adaptive Control

System Dynamics

## SKILLS

### PROGRAMMING

Extensive Usage:

Go • Python • Javascript & Typescript

Familiar with:

Rust • C++ • Java • Scala

### DEVELOPMENT

Microservices & Web:

fastapi • flask • gin • goa • gRPC • koa.js •

nest • next.js • react • websocket

IaC & Cloud Services:

AWS (CloudFormation, EKS, VPC, ACM,

ALB, NLB, Route53, SQS/SNS, Kinesis,

RDS, DynamoDB, ElastiCache, S3, Lambda,

Step Function, SSM, SecretsManager,

APIGateway, Opensearch) • aws-cdk •

GCP (GKE) • terraform • localstack

Kubernetes & Container Orchestration:

ack • aws-lb-controller • cert-manager •

cilium • coredns • crossplane • envoy •

external-dns • helm • ingress-nginx • istio

• karpenter • keda • kopf • kubebuilder •

kyverno • linkerd • metrics-server

CI & CD:

argo-cd • argo-rollouts • droneci • flux2 •

github actions • jenkins • supervisor

Big Data & Machine Learning:

airflow • dbt • matplotlib • mlflow •

numpy • osrm • pandas • prefect • pulp •

scipy • sklearn • spark • superset • vroom

Observability:

grafana • otel-collector • prometheus

### LANGUAGES

Turkish (Native)

French (Bilingual Proficiency)

English (Full Professional Proficiency)

German (Limited Working Proficiency)

## EXPERIENCE

### DELIVERY HERO SE | SENIOR SOFTWARE ENGINEER

Oct 2022 - Nov 2024 | Berlin, DE

- Member of the global developer platform (GDP) initiative with specialisation in k8s cluster fleet life-cycle management at **Delivery Hero**.
- Core maintainer of the OAM (Open Application Model) translation and cloud destination services enabling the provisioning of global infrastructure at DH.
- Focus on distributed systems, microservices (gin, goa, fastapi), k8s controllers (kubebuilder), developer productivity (CLI, etc.) and cloud infrastructures that oversee the creation, release and observability of 200+ k8s clusters.

### NEWSTORE | SOFTWARE ENGINEER II

Apr 2021 - Oct 2022 | Berlin, DE

- Newstore** is a platform offering omnichannel solutions for retail stores.
- Increased performance of tier-1 product services by cutting costs up to 40% via serverless architecture re-design and reduced catalog ingestion time by 50%.
- Focus on microservices (gin, fastapi), k8s (kubebuilder), distributed systems, cloud (AWS, terraform), opensearch, event driven architecture (CQRS), etc.

### GETIR | SOFTWARE ENGINEER

Nov 2020 - Apr 2021 | Istanbul, TR

- Getir** is a unicorn grocery delivery company. Maintained courier assignment, order acceptance, traffic estimation and map matching services.
- Refactored tier-1 routing services by switching to fastapi; reduced avg. response time by 40% and resource usage by 50% via optimizing algorithms.
- Focus on routing microservices (fastapi, gin), metaheuristic optimization (vroom, osrm), vehicle routing (CVRP, VRPTW), cloud (AWS), k8s, etc.

### BLUTV | SOFTWARE ENGINEER

May 2020 - Nov 2020 | Istanbul, TR

- Blutv** is an OTT streaming media platform present in Turkey and MENA region.
- Focus on microservices (fastapi, gin), content management, content delivery, user entitlement, OAuth 2.0, video encoding/transcoding (ffmpeg), batch processing (redis), cloud (AWS, terraform), k8s, etc.

### CEREBRO | SOFTWARE ENGINEER

Dec 2017 - May 2020 | Istanbul, TR

- Cerebro.tech** is a startup company providing automated bidding systems for metasearch engines such as Trivago, TripAdvisor and Google Hotel Ads.
- Focus on microservices (django, flask), batch processing (airflow, kafka, rabbitmq), ML workflows (mlflow), click and sales prediction for OTAs (sklearn, pytorch, pandas, numpy), crawlers (scrapy, selenium, beautifulsoup), regression models, linear optimization (pulp), cloud (AWS, terraform), k8s, etc.

## PROJECTS

### HIWELL APP | SOFTWARE ENGINEER

Sep 2019 - June 2020 | Istanbul, TR

Hiwell app is enabling remote interactions between clinical psychologists and their patients. Contributed to the initial version of the backend services for **Hiwell App**. Focus on Python, microservices, REST, PostgreSQL, AWS, etc.