

# 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:

Python • Go • Javascript & Typescript

Familiar with:

Rust • C++ • Java • Scala • R

### DEVELOPMENT

Microservices & Web:

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

nest • react • next.js • websocket

laC & Cloud Services:

terraform • aws-cdk • localstack • AWS

(CloudFormation, EKS, VPC, ACM, ALB,

NLB, Route53, SQS/SNS, Kinesis, RDS,

DynamoDB, Elasticache, S3, Lambda, Step

Function, SSM, SecretsManager,

APIGateway, Opensearch) • GCP (GKE)

Kubernetes & Container Orchestration:

kubebuilder • ack • helm • istio • linkerd •

cilium • coredns • external-dns •

aws-lb-controller • traefik • kyverno •

karpenter • ingress-nginx • cert-manager

• argo-workflows • envoy • keda

CI & CD:

argo-cd • flux2 • argo-rollouts • jenkins •

github actions • droneci • supervisor

Big Data & Machine Learning:

spark • prefect • airflow • dbt • pandas •

sklearn • numpy • pulp • scipy • osrm •

vroom • matplotlib • superset • mlflow

Observability:

prometheus • otel-collector • grafana

### 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**.
- 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 an integrated platform offering omnichannel solutions for retail stores to deliver better shopping experiences.
- Member of the catalog platform with specialisation in import pipeline and tier-1 product services ingesting and serving catalog data for the Newstore platform.
- Focus on serverless stack, microservices (gin, koa.js), 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 operating around the world.
- Algorithm team responsible of vehicle routing, courier assignment, order acceptance, traffic estimation and map matching services.
- Extensive usage of routing and mapping technologies such as Vroom and OSRM along with maintaining the business-critical routing algorithm services.
- Focus on routing microservices (fastapi, gin), cloud (AWS), metaheuristic optimization (vroom, osrm), vehicle routing (CVRP, VRPTW), 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, flask), content management, content delivery, user entitlement, content recommendation, video encoding/transcoding (ffmpeg), batch processing (redis), cloud (AWS, terraform), 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), 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.