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
IaC & 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 •
GH 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
- Part of 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), development productivity (CLIs, 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.
- Part of the Catalog team responsible for the 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 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), 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), crawlers (scrapy, selenium, beautifulsoup), regression models, linear optimization (pulp), 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.