

Ömer Can Gümüş

SOFTWARE ENGINEERING STUDENT · MLOPS / AIOPS / DEVOPS

Bursa, Türkiye

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SUMMARY

Software Engineering student specializing in MLOps, AIOps, and DevOps. Deploying production ML pipelines and AI-driven automation systems at Beko Corporate — from LLM-based classification workflows to anomaly detection stacks covering 10+ critical services. Passionate about building observable, automated, and production-grade ML systems. Core stack: Python, Docker, Kubernetes, AWS, Terraform, and Azure OpenAI.

EXPERIENCE

Beko Corporate

Jun 2026 – Present

System Infrastructure Intern (FreshStart 2026)

Istanbul

- Developed an AI-assisted ticket classification workflow using LLM and vector search technologies for enterprise service operations.
- Automated cloud infrastructure monitoring and proactive notification workflows using Microsoft Power Platform.
- Packaged and deployed enterprise applications through Microsoft Intune and contributed to endpoint management and patching processes.
- Supported infrastructure modernization initiatives involving SCCM and enterprise endpoint systems.

Beko Corporate

Dec 2025 – Jun 2026

AIOps Engineer (PREP Program)

Remote

- Engineered AIOps anomaly detection pipelines using Isolation Forest and time series forecasting, reducing false-positive alert noise by ~35% across production systems.
- Established observability and alerting workflows (monitoring, alerting, incident response) for 10+ critical services, improving mean time to resolution.
- Automated Python-based operational workflows to eliminate manual investigation effort and accelerate root cause analysis.
- Analyzed system metrics and log signals to fine-tune detection thresholds and improve overall alert fidelity.

QNB Türkiye

Aug 2025

Online Intern (QNB 101 Program)

Remote

- Completed a structured technical program covering banking technology architecture, Fintech trends, and enterprise digital transformation strategy.

TECHNICAL SKILLS

Languages: Python, SQL, Bash, TypeScript

MLOps & AIOps: Anomaly Detection, Drift Detection, Model Monitoring, LLMops, Isolation Forest, LSTM Autoencoder, PGVector

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Terraform, Ansible, GitHub Actions, CI/CD, Linux

Observability: Prometheus, Grafana, Alerting Pipelines, Log Analysis, Incident Response

Backend & Orchestration: FastAPI, REST APIs, Microservices, n8n, Power Automate

Data / Infra: PostgreSQL, PGVector, ClickHouse, Redis, Data Pipelines

Enterprise: SCCM, Intune, Microsoft Endpoint Manager

SELECTED PROJECTS

Star-Ops | github.com/omercangumus

Python, FastAPI, ML, PostgreSQL, Docker

- Designed an Edge-MLOps architecture for autonomous spacecraft health monitoring across a 6-satellite simulation environment.
- Deployed an anomaly detection ensemble (Isolation Forest, LSTM Autoencoder, SPC/EWMA) achieving 88.7% detection accuracy on telemetry data.
- Implemented real-time model monitoring with KS-test drift detection and PSI analysis to track production model health at the edge.

Cloud-Native Reliability Platform | github.com/omercangumus

Python, Kubernetes (EKS), Prometheus, Terraform

- Built a Kubernetes-native AIOps platform using Z-Score and EMA-based anomaly detection for distributed microservice observability.
- Implemented self-healing capabilities on EKS that cut MTTR by 50% by catching and mitigating anomalies before user impact.
- Provisioned the full observability stack with Prometheus and Terraform IaC for reproducible, production-grade deployments.

GhostCost | ghostcost.com

Python, FastAPI, AWS, Docker

- Built a cloud cost optimization SaaS with a deterministic detection engine covering EC2, RDS, EBS, S3, Lambda, ECS, and network resources.
- Designed a PriorityEngine with adaptive thresholds and action playbooks for automated cost recommendations.
- Maintained 160+ passing tests across a full CI/CD pipeline with Docker-ready deployment.

cosmic-pipeline | TUA Astro Hackathon 2026

Python, DSP, ML, Three.js

- Built a hybrid DSP + ML pipeline cleaning radiation-corrupted satellite telemetry — 362 anomalies processed in 3.3 seconds across four fault types.
- Delivered a Three.js 3D real-time dashboard for live telemetry monitoring alongside an Isolation Forest + LSTM ensemble detection engine.

Open-Source Contributions | bradygaster/squad

TypeScript, Node.js, AI Agents

- Contributing to a TypeScript/Node.js AI agent monorepo with multiple PRs approved and merged into the main branch.
- Maintaining strict code quality: ESM-only TypeScript, diff hygiene, changeset governance, and rigorous review cycles.

AWARDS

2025 **1st Place – Eastern Anatolia Region**, Turkcell Code Night Hackathon

CERTIFICATIONS

- 2026 **AWS Cloud Practitioner Essentials**, Amazon Web Services
- 2026 **AWS Observability**, Amazon Web Services
- 2026 **Machine Learning in Production**, DeepLearning.AI
- 2026 **Evaluating & Debugging Generative AI**, Weights & Biases
- 2026 **Automated Testing for LLMOps**, CircleCI
- 2026 **CI/CD Fundamentals with GitHub Actions**, Microsoft
- 2026 **Introduction to DevOps**, Microsoft

VOLUNTEERING

Habitat Association

2025 – Present

Financial Literacy Trainer

Türkiye

- Delivered financial literacy trainings as part of a social impact initiative by Habitat Association in collaboration with Allianz and UNDP.
- Reached 100+ students across Türkiye through interactive sessions focused on budgeting, saving, and financial decision-making.

EDUCATION

Fırat University

2024 – Present

B.Sc. in Software Engineering | Elazığ

Gümüşhane University

2023 – 2024

B.Sc. in Software Engineering (Transfer) | Gümüşhane