

Yusuf Can Coskun

Software Engineer, Data Platforms & Observability

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SUMMARY

Software engineer working on data platforms and observability at DE-CIX, an internet exchange operator. I run the Kafka platform carrying its network telemetry, build the Airflow pipelines that enrich and land it in ClickHouse and Postgres, and ship the internal products and customer-facing dashboards on top.

SKILLS

Data & Platforms: Kafka, Airflow, ClickHouse, PostgreSQL, RabbitMQ, Redis, Polars, Prometheus, Grafana, Superset

Languages: Python, SQL, Go

Services & APIs: FastAPI, Flask, Django

Infrastructure: Docker, Kubernetes, Helm, GitLab CI, Azure

Practices: ETL/ELT pipelines, data modelling, monitoring and alerting, incident triage, CI/CD, Linux, Bash, Git

WORK EXPERIENCE

DE-CIX, Frankfurt

Dec 2023 to Present

Software Engineer, Observability

Remote from Turkey

- Operate and maintain the Kafka platform carrying network telemetry and flow data, roughly 300k messages a second and ~10 TB/day (majority IPFIX, plus gRPC telemetry), with monitoring in Prometheus/Grafana and day-to-day incident follow-up via PagerDuty.
- Rewrote the enrichment pipelines (RIPE RIS MRT feeds, MaxMind, IXP public peering lists, submarine cable APIs) from a legacy PHP/MySQL stack onto Airflow with PostgreSQL and ClickHouse: one serial job became parallel DAGs and parallel tasks, with RIS collectors processed concurrently and each task staging into its own table before a single combine step. End-to-end runtime went from about 8 hours to ~30 minutes.
- Designed and delivered one major product and several smaller ones across the customer portal and internal tooling: the Superset boards behind the portal's Insights section, plus in-house APIs and frontends that pre-sales and product teams use to inspect customer, service and port statistics. The connected-networks and traffic-statistics pages published on de-cix.net are served from the same pipelines.
- Found and corrected counter logic in the telemetry path that produced large errors in traffic figures used for customer-facing reporting, ending a recurring source of support tickets.
- Rebuilt a broken scraper for public peering data using Selenium, restoring a dataset the enrichment pipeline depended on.
- Reduced high-cost historical datasets through clearer table/dataset design; later supported the team's move from Azure to on-prem, including the Azure cost analysis and a ClickHouse performance test suite used to compare the two.
- Write and review design documents for the team's products.

Stack: Python, Flask, FastAPI, Kafka, Airflow, Superset, PostgreSQL, ClickHouse, Polars, Docker, Kubernetes, Helm, Grafana, Prometheus, Kibana, PagerDuty, Azure, GitLab CI

Narts Informatics, Ankara

Aug 2022 to Sep 2023

Software Engineer

Hybrid

- Built backend services for corporate web applications at a leading Turkish telecom operator, including inventory discovery across 10,000+ network devices via SNMP and SOAP-based management systems.
- Built the Python parser/load path and Python scrapers for telecom network management platforms, and contributed to a Go-based SNMP polling service used where Python collection was too slow for the required window.

- Tuned memory and runtime on that parse-and-load path, and helped configure servers and containers for stable deployments.

Stack: Python, Go, Django, PostgreSQL, Oracle DB, SNMP, Docker, Podman

MobiRob Inc, Ankara

May 2021 to Aug 2022

Software Engineer

On-site

- Built computer vision and robotics software for several customer projects running in parallel in a small startup team.
- C++ and ROS tooling for bolt sequence detection and tracking on an automotive assembly line; a UR robot cell with laser profiler and 3D point-cloud processing for a tyre manufacturer.
- Also contributed a 3D human-detection service (depth camera, OpenCV, Flask) and a sensor-fusion prototype for a publicly funded R&D project.

Stack: Python, C++, C#, OpenCV, Open3D, ROS, MQTT, Redis, RabbitMQ, MongoDB

Eliar Electronics, Istanbul

Jun 2020 to Sep 2020

Intern, Robotics Software

On-site

- Helped the new robotics team design a communication layer between industrial robots and PLCs (Python, ROS, MQTT, OPC-UA).

METU ATLAS Interdisciplinary Robotics Research Laboratory, Ankara

2018 to 2019

Undergraduate Researcher

- Studied legged-robot dynamics and SLIP models in MATLAB and Python.

PROJECTS

Charon

github.com/yccoskun/charon

Durable notification delivery in Go

Apache-2.0

- Three Go services over Postgres, RabbitMQ and Redis. The API persists before it publishes, so a broker outage cannot lose a message; a sweeper reclaims stranded rows with `SELECT ... FOR UPDATE SKIP LOCKED`, workers take a Redis idempotency lock and a Lua token bucket, and provider calls run behind a circuit breaker that deliberately ignores 4xx.
- Delivery failures are classified by sentinel error rather than string matching: transient ones go back to the sweeper; permanent ones dead-letter. W3C trace context travels through the AMQP headers, so one notification is one Jaeger trace across API, broker hop and outbound call. Integration tests run against real Postgres, Redis and RabbitMQ containers rather than mocks.

Quake Anything

extensions.gnome.org

GNOME Shell extension, published

GPL-2.0

- Docks any installed GUI app to a screen edge on a keyboard shortcut, sizing it as a percentage of the monitor work area and controlling only the windows it spawned. TypeScript compiled to modular GJS for GNOME 46 to 50; published through the extensions.gnome.org review process, with issues and forks from users who found it there.

EDUCATION

Middle East Technical University

Graduated 2021

B.Sc. Mechanical Engineering

ADDITIONAL

Generative graphics: `three.js` and GLSL studies, published at yusufcancoskun.com/studio.