Yusuf Can Coskun

Software Engineer, Data Platforms & Observability

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SUMMARY

Software engineer with five years of professional experience, nearly three of them on data platforms and observability at DE-CIX, an internet exchange operator. Run the Kafka streaming platform that carries its network telemetry, build the Airflow batch pipelines that enrich and land it in ClickHouse and PostgreSQL, 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 (Kubernetes on VMs, Blob storage), Linux, Bash, Git
Practices: streaming and batch pipelines (ETL/ELT), OLAP data modelling, monitoring and alerting, incident triage, CI/CD, design documents and reviews

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 legacy PHP/MySQL onto Airflow, PostgreSQL and ClickHouse. One serial job became parallel DAGs: RIS collectors run concurrently and each task stages into its own table before a single combine step. Runtime fell from about 8 hours to ~30 minutes.
- Designed and delivered an internal report generator, built for pre-sales and product teams, plus the Superset boards behind the customer portal's Insights section and smaller API and tools. The connected-networks and traffic-statistics pages 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.
- 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.
- Rebuilt a broken scraper for public peering data using Selenium, restoring a dataset the enrichment pipeline depended on.

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.
- Wrote C++ and ROS tooling for bolt sequence detection and tracking on an automotive assembly line, and software for a UR robot cell with a 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*

Earlier robotics work 2018 to 2020

- Eliar Electronics, Istanbul (intern, Jun to Sep 2020): 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 (undergraduate researcher, 2018 to 2019): 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, workers enforce idempotency and rate limits in Redis, and provider calls sit behind a circuit breaker that deliberately ignores 4xx.
- Transient failures go back to the sweeper and permanent ones dead-letter. W3C trace context travels in the AMQP headers, so one notification is one Jaeger trace from API to provider. Integration tests run against real 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.