

YASIN ABDULKADIR YOKUS

Backend Engineer BSc. (ABET) | Oslo, Norway | yyokus@icloud.com | +47 40 32 40 44
GitHub (pers.) | GitHub (work) | Medium

PROFILE

Backend engineer with a strong background in large-scale, event-driven systems for IoT and real estate tech. Experienced in building distributed microservices, optimizing analytics over billions of records, and implementing secure multi-tenant cloud architectures. Contributor to open-source, with hands-on experience across Azure, Kafka, and modern ML pipelines. Backend engineer with expertise in distributed systems, cloud-native development, and secure, multi-tenant architecture. Experienced in Kafka-driven platforms, ML pipelines, and scalable IoT infrastructure. Collaborative team player and open-source contributor.

SKILLS

Languages: Python, C#, Rust, TypeScript, Java; **Cloud & Infra:** Azure IoT Hub & Edge, Docker; **Data & Streaming:** Kafka, Flink, TimescaleDB, GraphDB, Neo4j; **ML & Orchestration:** Airflow, LangChain, custom LLMs; **Security:** Azure AD B2C, PostgreSQL RLS, OAuth

EXPERIENCE

Backend Developer

Relynk | Startuplab Norway

Aug 2023 – Present

Oslo

- Contributed to development of drivers for Modbus, KNX, LoRaWAN, Glamox, and Gira protocols in building networks. Supported partner integrations using microservices and event-driven architecture. Worked with Azure IoT Hub and Edge.
- Improved analytics performance on time-series data with 57M+ daily records by analyzing query patterns and optimizing index types, leading to 52% faster queries on large tables.
- Designed and maintained Kafka-based microservices processing 400K+ messages daily in a real estate IoT platform.
- Participated in major data infrastructure migrations, including moving from Neo4j to GraphDB and TimescaleDB. Contributed to the implementation of the RealEstateCore (REC) ontology.
- Implemented multi-tenant API security with Azure AD B2C and PostgreSQL row-level security.
- Supported the design of a virtualized Azure IoT Edge development environment to improve testing and developer onboarding.
- Developed a conditional machine learning pipeline in Airflow for BACnet sensor data classification, using LangChain for embedding generation and similarity search. The pipeline includes modular tasks for data change detection, ingestion, cleaning, training, and inference, optimized to run only on updated data to reduce compute load.

Software Engineer

ICRON

May 2023 – Jul 2023

Istanbul

- Developed an in-app guided tour system using Angular and Protocol Buffers to enhance user onboarding and product navigation.

Software Dev Engineer

Siemens Advanta R&D

Sep 2022 – Apr 2023

Istanbul

- Collaborated on Rust CLI with Docker & WireGuard integration for secure deployments at Siemens Germany.
- Built tools for network management and mentored junior developers on Git workflows and software development best practices.

Research Intern

ITU Bioinformatics & Databases Lab

Jun 2022 – Aug 2022

Istanbul

- Optimized human metabolic network algorithms using Python and COBRA, achieving significant runtime improvements.

EDUCATION

BSc, Computer Engineering (ABET)

Istanbul Technical University

Sep 2019 – Jul 2022

GPA 3.25/4.00 (Top 8%)

ACHIEVEMENTS

- Contributed documentation improvements to open-source libraries including MDN, aiokafka, and pymodbus.
- TOEFL iBT 102/120; EIA 2020 MEA Regional Semi-Finalist.