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 expertise in distributed systems, scalable IoT pipelines, and secure multi-tenant cloud-native applications. Experienced in Kafka-driven platforms, TimescaleDB optimization, and ML-enhanced telemetry workflows. Recently built and deployed a full-stack EMS simulation platform (telemetry ingestion, time-series database, .NET API, React dashboard) using Azure cloud — demonstrating rapid prototyping and production alignment with energy tech use cases.

SKILLS

Languages: Go, Python, C#, Rust, TypeScript, Java; **Cloud & Infra:** Azure IoT Hub & Edge, Azure Functions, App Service, Container Apps, Docker; **Data & Streaming:** Kafka, Flink, TimescaleDB, GraphDB, Neo4j; **Frontend:** React, Vite, Chart.js; **ML & Orchestration:** Airflow, LangChain, scikit-learn, custom LLMs; **Security:** Azure AD B2C, PostgreSQL RLS, OAuth

EXPERIENCE

Backend Developer
Aug 2023 – Present

Relynk | Startuplab Norway   *Oslo*

- Developed drivers for Modbus, KNX, LoRaWAN, and other protocols; integrated partner systems using microservices and Azure IoT Hub/Edge.
- Optimized TimescaleDB queries for 57M+ daily records, improving performance by 52%.
- Built Kafka-based microservices handling 400K+ messages/day in real estate IoT platform.
- Participated in migrations from Neo4j to GraphDB and TimescaleDB; contributed to RealEstateCore ontology integration.
- Implemented multi-tenant security with Azure AD B2C and PostgreSQL RLS.
- Created virtual Azure IoT Edge testbed to speed up onboarding and testing.
- Built ML pipeline in Airflow to classify BACnet devices using LangChain embeddings + change detection logic.

Software Engineer
May 2023 – Jul 2023

ICRON   *Istanbul*

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

Software Dev Engineer
Sep 2022 – Apr 2023

Siemens Advanta R&D   *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
Jun 2022 – Aug 2022

ITU Bioinformatics & Databases Lab   *Istanbul*

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

INDEPENDENT WORK

SkySim EMS Platform
Jun 2025

Inspired by Skyfri EMS architecture   *Oslo, Norway*

- Developed a full-stack EMS simulator with real-time IoT telemetry (Azure IoT Hub), TimescaleDB storage, .NET API, and React dashboard. **Live demo:** `solar-sensor-frontend.vercel.app`

EDUCATION

BSc, Computer Engineering (ABET)
Sep 2019 – Jul 2022

Istanbul Technical University   *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.