

Burak Hamuryen

Senior Software Engineer

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Professional Summary

Senior Software Engineer based in Berlin with 14+ years of experience building distributed systems, microservices, and real-time video streaming and processing platforms. Work spans multi-cluster Kubernetes architectures and services in Go, Kotlin, Scala, Python, and Java across cloud, on-premise, and edge environments, alongside sensor and industrial device integration.

Professional Experience

Senior Software Engineer · intenseye

2022 — Present

- Part of the core engineering team at intenseye, an AI workplace safety platform deployed across 25+ countries.
- Contributing across multiple languages and services in a polyglot stack — backend, AI pipelines, and infrastructure.
- Working across ~10,000 Kubernetes pods on Google Cloud, on-prem K3s deployments, and NVIDIA Orin edge devices shipped to customers.
- Industrial integrations enable real-time production line halts when safety threats are detected.

Technologies: Go, Kotlin, Scala, Python, Google Cloud (GCP), Kubernetes, DeepStream, Temporal

Lead Software Architect · iSIM Platform

2020 — 2022

- Transitioned from Proline in 2020 when its iSIM product became a separate company, continuing work on the platform.
- Led architecture of a hybrid on-prem/cloud IoT orchestration platform deployed across ~50 locations.
- Unified 5,000+ cameras and sensors from multiple vendors into a single monitoring system with SCADA integration, big data analytics, and predictive maintenance.
- Built custom RTSP-to-WebRTC bridge by compiling Chrome engine for real-time 4x4 multi-camera grid rendering in browser.
- Central command center for live viewing, recording, video analytics, and traffic violation operations.

Technologies: C++, C#, Node.js, Spring, WebRTC, Kafka, MongoDB, Docker, Kubernetes (K8s)

Freelance Software Engineer · Ministry of Trade (Turkey)

2020

- Designed and built the national e-Auction platform, including a real-time bidding engine processing 1,000+ concurrent bids per auction with live balance checks and margin transactions.
- The platform has 1,430,066 active users as of September 14, 2026.
- Integrated with 4 major banks, e-Devlet, MERSIS, and MERNIS.

Technologies: .NET Core, Microservices, PostgreSQL, Real-Time Bidding

Research and Development Engineer · Proline Integrated Intelligence

2016 — 2020

- Joined during a challenging phase of a long-running government project with critical stability issues.
- Resolved memory leaks and stabilized the system within one week, then redesigned the entire platform from scratch with microservice architecture and REST APIs in under a year.
- Scaled to 60+ services on K8s.
- Built centralized city management platform for an international deployment.
- Served as Scrum Master driving microservice adoption company-wide.

Technologies: C++, .NET Core, Node.js, FFmpeg, ZeroMQ, Kafka, Docker, Kubernetes (K8s)

Senior Research and Development Engineer · Ekin Technology

Jan 2016 — Aug 2016

- Solved NAT traversal for peer-to-peer video transmission using UPnP and hole punching.
- Built a TCP/HTTP proxy with C++ and Boost.Asio, implemented device discovery and configuration, and worked on FFmpeg video encoding and decoding.

Technologies: C++, Boost.Asio, FFmpeg, UPnP, Networking

Research and Development Engineer · InfoDif (Information Diffusion Inc.)

Sep 2012 — Jan 2016

- Developed a native C++/Qt video management system with live viewing, recording, and analytics.
- Built camera and NVR administration tools, real-time radar and access-control data processing, and radar overlays synchronized with PTZ cameras.
- Worked on Capra image-processing pipelines and video transcoding for low-bandwidth systems.

Technologies: C++, Qt, FFmpeg, live555, PostgreSQL, gSOAP

Technical Skills

Languages: Scala, JavaScript, Java, Kotlin, Python, Go, C++, C#

Backend & Frameworks: Spring Boot, ASP.NET Core, FastAPI

Cloud & DevOps: Kubernetes, Docker, Google Cloud (GCP), Amazon Web Services (AWS), Terraform, Prometheus / Grafana

Data & Messaging: ZeroMQ, Temporal, NATS, PostgreSQL, Redis, Kafka, Pulsar, Elasticsearch

Video & AI: RTSP, ONVIF, GStreamer, DeepStream, FFmpeg, WebRTC, Computer Vision

Domains: Distributed Systems, Microservices, System Design, Real-Time Processing, IoT & Edge

Devices & Industrial Systems: Sensor Integration, Multi-vendor Devices, SCADA Integration, Radar Integration, PTZ Camera Control, Access Control Systems, Industrial I/O, Real-Time Data Acquisition

Edge & On-Premise: NVIDIA Orin, K3s, Edge AI Pipelines, Industrial Integrations

Education and Credentials

Patent — Video Network Gateway System

Turkish Patent Office (2020/17235) | 2020

M.Sc. in Information Systems

Hacettepe University, Ankara | 2013 — 2019

B.Sc. in Electrical & Electronics Engineering

Niğde University — Honours Degree | 2008 — 2012