

# Gufran Güneş

☎ +90 538 218 55 62   ✉ gufrancj@gmail.com   🔗 linkedin.com/in/gufran-güneş-bb6b10265   🐙 github.com/gufran123cj

## Experience

### Forinvest — Software Engineer

Istanbul, Turkey  
Aug 2023 – Aug 2025

- Improved and maintained **FXPlus** (C++/Boost), a high-performance trading platform handling millions of real-time data points daily; optimized pipelines, reduced memory usage by **30%**, and delivered **100+** updates across multiple releases.
- Refactored legacy modules using MVC/MVP patterns, reducing complexity by **25%** and increasing code review approvals by **40%**.
- Completed **250+** **Jira tasks** in Agile environments; contributed to MVVM and event-driven architecture refactoring.
- Participated in **40+** **Agile ceremonies**, accelerating onboarding and gaining strong enterprise-level development experience.
- Worked extensively on low-latency data processing pipelines, focusing on concurrency, memory management, and efficient data structures to support real-time market data flows.

### Tamsdata — Software Engineer

Istanbul, Turkey  
Jan 2025 – Present

- Developed and maintained a **GS1 QR Platform** (FastAPI/React/TypeScript), a multi-tenant SaaS system composed of **24 core modules** covering product lifecycle management, sustainability tracking, and GS1-compliant QR code generation.
- Designed and implemented a multi-tenant data architecture with **50+ database tables**, organization-level data isolation, and JWT-based authentication; authored **40+ migration scripts** and delivered **100+ TypeScript-based React components**.
- Contributed to an **ISO 14040/14044-aligned Lifecycle Assessment (LCA)** module with **9-stage lifecycle modeling**, and an **EU ESPR 2026-compliant Digital Product Passport (DPP)** system integrating **5 sustainability domains**.
- Implemented GS1 Digital Link resolution backed by MongoDB, designed **7 QR/vCard templates**, and delivered Excel-based bulk import/export pipelines for structured product data ingestion.
- Collaborated closely with product, design, and engineering teams in an Agile environment during the platform build phase.

## Projects

- **Digital Twin for Chronic Illness Patients** — Developed a multi-device health monitoring system integrating Galaxy Watch5 Pro, smart scale, and IoT water dispenser via Google Health Connect. Collected **8+ real-time health metrics** and built Python-based ML models (Logistic Regression, SVM, KNN) achieving **82%+ accuracy** for chronic condition risk prediction.
- **Binance Market Viewer** — Designed and implemented a real-time crypto market tracking application using **C++17**, WebSocket APIs, and MVC architecture, processing **100+ price updates per second** with **sub-50ms UI latency**.
- **RT-GameServer-ECS-FPS-Arena** — Built a real-time multiplayer FPS server/client using an **ECS (SparseSet)** architecture, authoritative **UDP networking**, snapshot replication at **60 TPS**, and LDtk-based map loading, focusing on low-latency state synchronization.
- **Vision AI – Real-Time PPE Detector** — Developed a YOLOv8-based computer vision system for detecting hard-hats and safety vests using custom datasets, transfer learning, and GPU-accelerated training. Delivered Dockerized real-time inference pipelines optimized for edge and on-prem deployments.

## Education

### Dokuz Eylul University — B.Sc. in Computer Engineering

Izmir, Turkey  
Sep 2019 – June 2024

## Technical Skills

- **Languages:** C++, Python, Java, Kotlin, Swift, C#, Flutter
- **Tools & Platforms:** Jira, Git, Postman, SourceTree, Unity, Godot
- **Back-end:** Java Spring, Go, FastAPI
- **Front-end:** React.js, TypeScript
- **Databases:** Oracle, PostgreSQL, MySQL, MSSQL, Firebase, PL/SQL
- **Operating Systems:** Linux
- **DevOps / Cloud:** Docker, Microsoft Azure