

Batuğ Koçak

Software Engineer · platform engineering · system integration · production reliability

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Software engineer building production systems for port terminals, logistics and internal platforms, in use across Türkiye, Europe, Central America and Central Asia. Builds end to end with AI coding agents while owning architecture decisions, verification and rollout. Strongest where software meets other systems and the physical world: SAP, Navis N4, weighbridge hardware, offline field sites.

IExperience2023 – Present

CoreX Holding BVSoftware Engineer · TürkiyeApr 2025 – Present

Backend, then AI-assisted full-stack developer on the platform engineering team.

- Weighbridge management systemMining site, Central Asia · backend owner, on-site engineer
- Built the weighing lifecycle, SAP synchronization and a Windows service that reads scale indicators over TCP in three wire formats.
 - Designed offline-first operation for a site where snowstorms cut the network and one weighbridge talks by radio: idempotent sync, server-side retries, a durable sync log.
 - Led go-live over three on-site visits (~6 weeks). Live on 5 weighbridges since May 2026: 175K+ weighings, ~90% transferred to SAP.

- IIS fleet orchestration platformProposed it, sole developer
- Replaced manual app-pool management on each server with phone-home agents and one web UI; built every part, CI/CD included.
 - Health-gated rolling recycles, idempotent commands, four-eyes approval, SQL-lease leader election, a self-healing watchdog, 62 tests.

- Container-terminal billing platformCore developer · 7 terminals, 3 regions, ~16K invoices/month
- Built manual invoicing, a new approval-matrix service and SAP ERP and customer XML invoice integrations, all in production.
 - Built operational and financial reports in DevExpress and Excel, from loading lists to revenue, sent by rule-based emails.
 - Root-caused and fixed production issues, including a CDC race that lost event changes and a nested-semaphore deadlock.

- Platform, reliability and securityShared .NET framework and internal products
- Root-caused production Redis freezes across several products to a cache-invalidation echo loop in the shared framework; fixed it.
 - Closed IDOR and fail-open authorization gaps (794-endpoint static audit); a build gate now blocks license keys in JS bundles.
 - Built the framework's image-processing and health-check modules and NuGet pipeline; cut CI builds from ~20 to ~5 minutes.

- Other projects
- Terminals: Navis N4 yard and warehouse management (75K+ work orders), a crane shift-start checklist, a radiation-scanner watchdog.
 - Internal tools: main developer of the team's timesheet platform, secure external file transfer, a read-only "view as user" tool.
 - Integrations and AI: SAP and Business Central integrations, LLM-based newsletter features, a Copilot Studio agent.

Yıldırım Group of CompaniesSoftware Engineering InternJul 2023 – Sep 2024

Three internships: built a vehicle delivery system from scratch (.NET REST API, Vue real-time tracking) and .NET microservices (PostSharp AOP, SQL Server tuning).

II Education

Karadeniz Technical UniversityB.Sc. Software EngineeringOct 2024

GPA 3.41/4.00 · Honors Degree Student · Board member, KTU Software Club (organized KTU 4th Software Day)

III Skills

Engineering	distributed-systems patterns (idempotency, leader election, outbox, retries), system integration (SAP, Navis N4, Dynamics 365 Business Central, Microsoft Graph, TCP devices), CI/CD on Azure DevOps, Keycloak/OIDC, security hardening
AI-assisted development	daily work with coding agents, architecture decisions, ADRs, test and build gates owned by me
Stack	.NET (C#), ServiceStack, Vue 3 + TypeScript, SQL Server, Redis, SignalR, IIS
Languages	Turkish, English