Ibrahim Emre Polat — Computer Engineer

5348249797, ibrahimemrepolat@gmail.com

PROFILE

Senior Backend Developer with 13+ years of experience building .NET backend systems, most of them in e-commerce: commerce platforms, a 3PL warehouse management system, and the integrations that connect them to ERP, marketplace, shipping, and payment systems. I started my career as an Oracle ERP developer (PL/SQL), so I know both sides of an ERP integration, and today I specialize in event-driven architectures, microservices, and domain-driven design.

I have integrated Shopify (Admin REST/GraphQL APIs, webhooks, OAuth apps, inventory and fulfillment sync) and Etsy, payment providers (Craftgate, Masterpass, Payone), shipping carriers (DHL, UPS, FedEx, USPS, ShipStation), marketing and consent platforms (Insider, İYS), and ERP/accounting systems (Oracle ERP, Logo, Netsis, NetSuite, QuickBooks). These systems run at real scale: a platform serving 1.5M customers and ~10K orders a day, a deals platform handling €15M in monthly volume, and a WMS ingesting marketplace orders in real time.

My core strength is reliable data flow between systems: scheduled and event-driven processing (Hangfire, Quartz.NET, Azure Functions, hosted services), real-time communication with WebSockets and SignalR, idempotent message handling with the outbox/inbox pattern, resilient API clients with Polly (retries, circuit breakers, rate limiting), and query, indexing, and partitioning work on large PostgreSQL, SQL Server, and Oracle databases. I write C#/ASP.NET Core (.NET 6–10) and Java 17/Spring, following Clean Architecture, DDD, and CQRS.

I like being involved from the first conversation about a feature to running it in production: understanding what the business actually needs, choosing a design that stays simple to maintain, and shipping it with automated tests, CI/CD, and monitoring on Azure and AWS. I have worked in Scrum teams for most of my career, built and led a team as a co-founder/CTO, and enjoy helping junior developers grow. I also build Angular (TypeScript) features on top of the APIs I design, and use AI-assisted, CLI-based workflows to move faster without compromising design standards.

March 2026 - Present

Senior Backend Developer (Full-time) — SHFT, Istanbul

- Building the backend of tazecicek.com, an online flower and gift delivery platform serving 1.5M customers with 10M+ orders and ~10K orders per day
- Designed and built a .NET 10 microservices platform using Domain-Driven Design (DDD), CQRS, and event-driven architecture
- Worked directly with operations and finance teams to turn delivery, invoicing, and stock processes into technical designs before writing code
- Migrated 1.5M customer records from the legacy platform with batched, resumable, and idempotent import jobs, plus validation and reconciliation reports
- Integrated DHL shipping APIs for shipment creation, label generation, and delivery tracking
- Integrated Craftgate payment orchestration and Masterpass for secure stored-card and one-click checkout flows
- Integrated Insider for customer engagement, event tracking, and personalized marketing campaigns
- Integrated İYS (Message Management System) for commercial e-mail/SMS consent management and regulatory compliance
- Integrated Logo accounting/ERP to synchronize orders, invoices, and stock data automatically
- Made third-party integrations resilient with Polly (retries with backoff, circuit breakers, rate limiting), the transactional outbox/inbox pattern, and idempotency keys to prevent duplicate shipments, payments, and invoices
- Implemented cross-service communication with MassTransit over RabbitMQ and Kafka, with retries, redelivery, and dead-letter handling
- Integrated PostgreSQL PostGIS for spatial delivery-zone matching

- Optimized PostgreSQL for high-volume order and event tables with composite and partial indexes, time-based partitioning, and query plan analysis
- Developed a full testing strategy with xUnit, FluentAssertions, Moq, Testcontainers, and Hurl
- Built AWS S3-based storage with private/public bucket architecture and CDN delivery
- Designed versioned REST APIs and scalable DTO structures
- Built scheduled and background jobs with Hangfire, Quartz.NET, and hosted services for order synchronization, stock updates, and reconciliation
- Set up observability with Prometheus, Grafana, and Seq: structured logging, correlation IDs across services, dashboards, and alerts on queue backlogs and integration failures
- Applied layered architecture and modular monolith composition where needed

Sept 2025 – March 2026

Senior Backend Developer (Contract) — Decarbonia, Istanbul

- Built backend systems using .NET 9 and Clean Architecture
- Implemented CQRS with MediatR pipelines (validation, logging, transactions)
- Designed multi-tenant architecture with tenant isolation
- Integrated Azure Blob Storage, SendGrid, Twilio, and OpenAI API
- Managed data access with EF Core and SQL Server
- Implemented JWT authentication with refresh tokens
- Developed Angular (TypeScript) front-end features consuming .NET REST APIs

Jul 2024 — Sept 2025

Senior Backend Developer (Contract) — Köln amplicade (aldi-deals.de)

- Developed backend services using ASP.NET Core in a microservices architecture for a deals platform handling ~7K orders per day and €15M in monthly transaction volume
- Integrated the Payone payment gateway for payments, captures, and refunds, with idempotent notification handling and daily reconciliation jobs to prevent double charges
- Integrated partner and travel provider APIs such as Eurowings into the deals platform
- Built invoicing services for automated invoice generation and delivery
- Implemented document archiving for invoices and transactional documents on Azure Blob Storage
- Integrated Keycloak for authentication and authorization (OAuth2 / OpenID Connect)
- Built asynchronous workflows on Azure Service Bus with dead-letter queues, and deployed services to Kubernetes
- Set up centralized logging and monitoring with the ELK stack, with alerts for failed payments and integration errors
- Managed CMS integrations using Umbraco
- Built Angular UI components integrated with backend microservices

Sep 2023 — May 2024

Senior Backend Developer (Full-time) — Idenfit, Istanbul

- Developed scalable backend services using Java 17 and Spring
- Built data access layers with Hibernate and PostgreSQL
- Used MongoDB and Redis for flexible data and caching
- Implemented RabbitMQ for asynchronous processing
- Improved performance and reliability by tuning slow PostgreSQL queries and indexes and adding Redis caching for frequently read data
- Led a team in migrating Java-based software to the .NET platform
- Helped junior developers and interns get productive through onboarding sessions and detailed code reviews

Sep 2021 — Sep 2023

Senior Backend Developer (Full-time) — Luteg Software, Istanbul

- Built a 3PL warehouse management system (WMS) for a US-based logistics client using a microservices architecture, processing ~2K orders per day for multiple merchants
- Developed fulfillment workflows covering inbound receiving, inventory tracking, and pick, pack, and ship operations
- Built real-time warehouse features with SignalR and WebSockets: live task assignment to pickers, incoming-order screens on the warehouse floor, and in-app chat
- Integrated Shopify through the Admin REST and GraphQL APIs and HMAC-verified webhooks for real-time order import, syncing inventory levels, fulfillments, and tracking numbers back to stores; integrated Etsy the same way, with idempotent processing to prevent duplicate orders
- Built a Shopify app with OAuth-based installation so each merchant could connect their store to the WMS without manual setup
- Integrated ShipStation, DHL, USPS, UPS, and FedEx for rate shopping, label generation, and shipment tracking
- Handled carrier and marketplace API rate limits with Polly-based throttling and retries, and moved label generation to queue-based processing
- Integrated NetSuite and QuickBooks to synchronize orders, invoices, payments, and inventory for client billing
- Built distributed processing with Azure Functions (queue and timer triggers), Service Bus, and Blob Storage for order imports, tracking updates, inventory sync, and automated billing and balance reminders
- Optimized queries on inventory movement tables with 10M+ rows using covering indexes, partitioning, and archiving of historical data
- Worked in Scrum sprints together with the US client's product team, tracking work in Jira and Azure Boards

Jul 2017 — Feb 2021

Co-Founder & CTO / Developer — Marketsenin Internet Hizmetleri A.Ş., Gaziantep

- Served as CTO, owning the technical vision, system architecture, and technology stack of an online grocery e-commerce platform
- Built and led the development team, running sprint planning, code reviews, and release processes
- Designed and developed ASP.NET backend systems for the platform, including catalog, stock, order, and delivery management
- Integrated supplier systems to automate order generation and keep product availability in sync
- Implemented secure online payment infrastructure
- Managed hosting, deployments, and production operations of the platform

Mar 2017 — May 2021

General Manager — IEP Bilişim Danışmanlık, Gaziantep

- Led IT and e-commerce consulting projects
- Designed system architectures, led software selection and process optimization, and built digital strategies for client businesses
- Provided ISO 27001 consulting, including risk assessments, security policies and procedures, and certification audit preparation

Jan 2015 — Mar 2017

Eruslu Group Companies — Gaziantep

Head of IT | Jan 2015 — Mar 2017

- Built centralized IT infrastructure across group companies (Erpen, BZ İnşaat, Eruslu Health, Ecoplast)
- Led the Netsis ERP implementation for the production department
- Managed the IT team, system monitoring, and maintenance of business-critical systems

E-commerce Operations Manager & Developer (Sleepy) | May 2015 — Mar 2017

- Part of the founding team of the Sleepy brand; managed e-commerce operations and call center processes while developing the integrations and back-office tools
- Designed and implemented end-to-end e-commerce system architecture, including databases, integrations, and operational workflows
- Developed cargo carrier integrations for automated shipment creation, tracking number generation, and delivery status updates
- Developed Netsis ERP integrations to synchronize e-commerce orders, invoices, stock, and product data
- Improved operational efficiency by streamlining order processing, system integrations, and internal workflows

Apr 2013 — Dec 2014

IT Engineer / Oracle ERP Developer — Sanko Holding, Gaziantep

- Developed PL/SQL packages, stored procedures, functions, and triggers on Oracle Database for Oracle ERP modules
- Built custom reports, interfaces, and data integrations between Oracle ERP and other enterprise systems
- Optimized SQL queries and database performance for business-critical ERP processes
- Implemented security measures including firewalls, authentication, and logging, and reported security risks to management

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EDUCATION

B.Sc. Computer Engineering — Eastern Mediterranean University

Sep 2007 — Feb 2012 | Famagusta, North Cyprus

SKILLS

Languages & Frameworks: C#, ASP.NET Core (.NET 6–10), Java 17, Spring, TypeScript, Angular, PL/SQL, T-SQL

Architecture: Microservices, DDD, CQRS, Event-Driven Architecture, Clean Architecture, Modular Monolith, REST APIs

Databases: PostgreSQL (PostGIS), MS SQL, Oracle, MongoDB, Redis; query tuning, indexing, partitioning

Messaging: Kafka, RabbitMQ, MassTransit, Azure Service Bus

Jobs & Data Processing: Hangfire, Quartz.NET, Azure Functions (timer/queue triggers), Hosted Services, batch imports, data migrations

Real-time: SignalR, WebSockets

Reliability: Polly (retry, circuit breaker, rate limiting), Outbox/Inbox pattern, idempotent consumers, dead-letter queues

Observability: Grafana, Prometheus, Seq, ELK Stack, structured logging, alerting

Process & Tools: Scrum, Jira, Azure Boards, technical design documents

Cloud & DevOps: Azure (Functions, Blob Storage, Service Bus), AWS (S3, CDN), Kubernetes, CI/CD (GitHub Actions, Azure DevOps)

Testing & Quality: xUnit, FluentAssertions, Moq, Testcontainers, Hurl, SonarQube, code reviews

Security & Auth: Keycloak, OAuth2 / OpenID Connect, JWT, ISO 27001

Integrations: Shopify (Admin REST/GraphQL APIs, webhooks, OAuth apps), Etsy, ShipStation, DHL, UPS, FedEx, USPS, Craftgate, Masterpass, Payone, Insider, İYS, Oracle ERP, Netsis, Logo, NetSuite, QuickBooks

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LANGUAGES

Turkish (Native) | English (B2)