

Ozgur Gurcan

Backend Engineer

Izmir, Turkiye · Open to Remote

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SUMMARY

Backend engineer with 6+ years of experience building high-traffic, event-driven systems in Java and Spring Boot. Most recently at Trendyol – a platform serving 30M+ customers and 250K+ sellers across 27 countries – I worked across a coupon domain of 38 applications on the checkout critical path, built on Kafka, Couchbase, Elasticsearch and PostgreSQL. I have led architecture redesigns and database migrations end to end (ADR, phased rollout, rollback, post-deploy monitoring) and invest in code quality, observability and developer-productivity automation.

TECHNICAL SKILLS

Languages: Java 25, JavaScript, TypeScript, SQL; working knowledge of Go

Frameworks: Spring Boot 4, Quarkus, Vert.x, NestJS, Hapi

Testing: JUnit 5, Mockito, Testcontainers, WireMock, Cucumber (BDD end-to-end), Pitest mutation testing, JaCoCo

Data: Couchbase (XDCR, CBES), Elasticsearch, PostgreSQL, MongoDB, BigQuery

Messaging & Design: Apache Kafka, transactional outbox, idempotent consumers, saga/compensation, DDD, hexagonal architecture, CQRS

Resilience & Performance: Resilience4j (circuit breaker, retry, bulkhead), Caffeine caching, rate limiting, index and query tuning, virtual threads, API versioning

Infrastructure: Kubernetes, OAM manifests, Docker, GitLab CI, AWS, Maven, Gradle

Observability & Quality: Prometheus, Grafana, Kibana, OpenTelemetry, Elastic APM, SonarQube, alerting

Practices: System design, ADR/RFC authoring, multi-datacenter deployment, on-call and incident response, mentoring

Spoken: Turkish (native), English (professional working proficiency)

EXPERIENCE

Trendyol | *Backend Engineer, Coupon domain*

Aug 2024 – Sep 2026 · Izmir, Turkiye

- Worked across a domain of **38 applications** – Java/Spring Boot and Quarkus services, Go consumers and Kafka connectors – on the checkout critical path, running **active-active across two datacenters** on an event-driven Couchbase, Elasticsearch and PostgreSQL architecture, serving roughly **4M requests per minute** at steady state, close to **7M at peak**, and around **800K coupon redemptions a day**.
- Authored the architecture decision record for the domain's core data model and designed the redesign behind it: embedding related entities into a single document to remove an N+1 lookup costing up to **200 extra database reads per request across 11 endpoints**. Shipped behind a feature flag with an atomic unit-of-work and rollback. At full rollout it retires **around 300M documents, 245 GB RAM and 780 GB disk**.
- Built one of the domain's services from the ground up and later led its migration from Couchbase to PostgreSQL with **zero downtime and zero data loss** – dual-write, automated consistency checks and a controlled traffic switch with rollback – introducing a repository abstraction that became the team's reusable migration pattern.
- Was the top contributor to the real-time targeting service: instant coupons triggered by basket, browsing and favourite events plus dynamic marketing cohorts, built on a transactional outbox and a state machine. Elsewhere designed the compensation flow that keeps cross-border coupon creation consistent as a saga.
- Found through BigQuery analysis over a **32 TB** coupon dataset that coupons were distributed uniformly regardless of discount value, and designed a quality-based dynamic limit algorithm: high-value coupons reached more customers, wasted generation dropped and system load improved. The same analysis exposed countries receiving zero coupons, traced to an upstream script bug.
- Prepared the domain for **5–10x campaign traffic peaks** – capacity planning, load and chaos testing, caching, rate limiting and index tuning – holding **p99 at 63 ms** on the main read path. Ran multi-datacenter deployments through the platform's deployment manifests: pod sizing, autoscaling, progressive rollouts, active-zone shutdown to shift traffic between DCs, and a cost scale-down that zeroed idle replicas across every tier.
- Drove the domain's end-to-end BDD suite to **340 scenarios covering nine services**, running on every merge request with parallel execution and a fail-only rerun stage that separates flakes from real regressions. Moved **16 services** toward SonarQube Grade A, led the Java 25 and Spring Boot 4 upgrade, and carried the on-call rotation, leading incident response and authoring RCAs.

Getir | *Software Developer*

Nov 2022 – Aug 2024 · Izmir, Türkiye

- Owned the gateway service behind Getir’s mobile and web applications – dashboards, shop detail views and product navigation – built on Node.js (NestJS, Hapi) and MongoDB, directly shaping the customer-facing experience.
- Designed and shipped a new service centralizing shared logic and downstream service calls, eliminating code duplication, improving performance by over 15% and simplifying error tracing across the platform.
- Introduced team-level engineering processes – test quality metrics, documentation standards, structured onboarding and an improved production-defect workflow – contributing across both Node.js and Java/Spring Boot services.

PiA (People in Action) | *Software Developer*

Aug 2020 – Nov 2022 · Remote, Türkiye

- Migrated Vodafone Spain’s platform to a RESTful microservice architecture, improving system efficiency.
- Built the backend infrastructure for Vodafone Albania from the ground up, delivering a RESTful API for customer support operations.
- Mentored junior engineers, providing technical guidance and owning task breakdown.

Compelis | *Software Engineer – early-stage startup, part-time*

Jun 2020 – Aug 2021 · Remote, USA

- Built competitor-intelligence software for the e-commerce sector on a serverless architecture.

Corebit Tech | *Backend Developer*

Sep 2019 – Jun 2020 · Izmir, Türkiye

- Developed, debugged and shipped web application code while completing my final year of university.

Aselsan | *Software Developer (Intern)*

Jul 2019 – Sep 2019 · Ankara, Türkiye

- Built pre-compile syntax and logic checks using Abstract Syntax Trees, regular expressions and C++ to enforce code quality across company software components.

ENGINEERING INITIATIVES

- **AI Code Review Bot** (*MCP servers, vector storage, Slack, n8n*) – reads the codebase, documentation and Jira tasks to generate contextual MR comments, and answers system questions directly in Slack.
- **Documentation Automation** (*n8n, GitLab*) – diffs merged code changes against wiki standards and regenerates technical documentation automatically, removing recurring manual upkeep from the team.
- **Self-Service Config Pipeline** (*GitLab CI*) – replaced a manual, code-change-driven process with a validated pipeline the client team runs itself, cutting update time from **30 minutes to under 30 seconds**.
- **Load-Test Data Generator** – a single parallel call replaces around 30 manual requests and generates tens of millions of coupons, cutting load- and chaos-test setup from **an hour to under five minutes**.

EDUCATION

Izmir Katip Celebi University | MS, Computer Software Engineering (GPA 4.00/4.00)

2023 – 2024

Dokuz Eylul University | BE, Computer Engineering (GPA 3.33/4.00)

2016 – 2020