

NURI CAN OZTURK

Junior Software Engineer

canozturk309@gmail.com | +90 541 874 3448 | github.com/nuricanozturk01 | nuricanozturk.com

PROFESSIONAL SUMMARY

Junior Software Engineer specializing in high-performance backend systems and distributed architecture. Proven expertise in building custom Docker and Cargo Registries, distributed message brokers (BearMQ), and self-hosted Git platforms (OriginHub) using Java and Spring Boot. Skilled in Kubernetes orchestration, Terraform (IaC), and secure CI/CD automation. Focused on engineering scalable microservices, MFA/TOTP security systems, and enterprise integrations (Stripe, S3). Passionate about distributed systems and performance optimization.

TECHNICAL SKILLS

Programming Languages: Java (8, 11, 21, 25), JavaScript, TypeScript, Golang

Frameworks and Libraries: Spring Boot, Spring Framework, Spring Data JPA, Spring Security, Angular

Databases: PostgreSQL, MySQL, MongoDB, Redis

Message Brokers: Apache Kafka, RabbitMQ

DevOps and Cloud: Docker, Kubernetes, Helm, Terraform, GitHub Actions, ArgoCD, AWS

Software Architecture: Microservices Architecture, RESTful API Design, Event-Driven Architecture, Domain-Driven Design (DDD), Design Patterns

Testing: JUnit, Mockito, Integration Testing, Smoke Testing, Test-Driven Development (TDD)

Tools: Git, GitHub, IntelliJ IDEA, Postman, Swagger/OpenAPI, SonarQube

PROFESSIONAL EXPERIENCE

Junior Software Engineer | Repsy (repsy.io)

June 2024 – Present | Netherlands / Remote

- Developed and maintained scalable microservices using Java 25 and Spring Boot, utilizing PostgreSQL for efficient data management and persistence.
- Orchestrated a high-availability Kubernetes environment using Helm and Terraform (IaC), ensuring 99.9% uptime across 5+ microservices.
- Designed and deployed production-grade Docker and Cargo Registries, while architecting GitHub Actions pipelines that accelerated deployment cycles by 40%.
- Engineered a TOTP-based MFA authentication system and an automated deployment token rotation framework to harden system security and CI/CD workflows.
- Built a comprehensive smoke test suite for production deployments to ensure system stability through automated pre-deployment validation.
- Integrated Stripe for automated recurring billing and Backblaze S3 for scalable artifact storage, implementing intelligent lifecycle policies to optimize infrastructure costs.
- Developed a bidirectional Freshdesk integration for real-time ticket synchronization, resulting in a 40% reduction in support response times.

Software Engineering Intern | FileOrbis (fileorbis.com)

July 2023 – September 2023 | Izmir, Turkey

- Developed a secure file management system using ASP.NET Core and React, implementing Role-Based Access Control (RBAC) and optimized data persistence with Entity Framework Core.
- Streamlined the development workflow by implementing Swagger/OpenAPI documentation and integrated unit tests using xUnit, ensuring API reliability and facilitating frontend-backend integration.

Software Engineering Intern | Kafein Technology Solutions (kafein.com.tr)

July 2022 – August 2022 | Istanbul, Turkey

- Engineered a Spring Boot RESTful API with TMDB integration, implementing response caching and MySQL schema optimization to enhance data retrieval performance.
- Refactored the backend architecture using Service-Repository patterns and MapStruct for DTO mapping, improving code maintainability and separation of concerns.

TECHNICAL PROJECTS

Call of Project – Project Collaboration Platform | github.com/nuricanozturk01/call-of-project-backend

- Architected microservices-based platform for developer collaboration, project matching, and technical interview preparation using Spring Boot and Apache Kafka.
- Implemented event-driven architecture with Apache Kafka for real-time notifications and asynchronous communication between 8 independent microservices.
- Designed task management system with kanban board functionality, sprint planning, and progress tracking using PostgreSQL for data persistence.

BearMQ – Distributed Message Queue System | bearmq.nuricanozturk.com

- Developed lightweight distributed message broker inspired by RabbitMQ, implementing publish-subscribe and point-to-point messaging patterns.
- Built a broker engine with queue management, exchange routing (direct, fanout, topic), and message persistence using Chronicle Queue for high-throughput storage.
- Implemented TCP/UDP client library with connection pooling and automatic reconnection for reliable message delivery.
- **Github:** github.com/nuricanozturk01/bearmq

OriginHub – Simple, Self-Hosted Git Registry | originhub.nuricanozturk.com

- Developed a Java/Spring Boot Git platform supporting core workflows: Push/Pull, Branching, Commits, and Pull Requests (PR).
- Implemented a secure SSH-based transport layer for Git operations and integrated OAuth2 (Google, GitHub, GitLab) for streamlined authentication.
- Built an integrated Code Browsing interface and repository management dashboard for a seamless, self-hosted developer experience.
- **Github:** github.com/nuricanozturk01/originhub

Custom Unit Testing Framework | github.com/nuricanozturk01/unit-test-framework

- Built a JUnit-inspired testing framework from scratch using Java Reflection API and custom annotation processing for test discovery and execution.
- Implemented test lifecycle management with setup, teardown, before/after hooks, and assertion utilities for comprehensive test coverage.

EDUCATION

Bachelor of Science in Software Engineering | Yasar University

October 2018 – July 2024 | Izmir, Turkey | GPA: 3.06 / 4.00

Relevant Coursework: Data Structures and Algorithms, Software Architecture and Design Patterns, Database Management Systems, Distributed Systems, Operating Systems, Computer Networks, Object-Oriented Programming, Web Technologies

OPEN SOURCE CONTRIBUTIONS

Repsy Open Source | github.com/repsyio/repsy

- Developed and open-sourced internal Docker and Cargo Registry implementations to enhance artifact management and distribution for the global DevOps and Backend ecosystems.

Kubernetes Kitap | github.com/mstrYoda/kubernetes-kitap

- Contributed to the largest Turkish open-source Kubernetes resource by authoring comprehensive guides on Deployment Orchestration, Pod Lifecycle, and Container Probes.
- **Contribution Link:** [Kubernetes Kitap Deployment Part](#)

ADDITIONAL INFORMATION

Languages: Turkish (Native), English (Professional Working Proficiency – B1/B2)

Soft Skills: Problem-Solving, Debugging and Troubleshooting, Team Collaboration, Agile/Scrum, Code Review, Technical Documentation, Ownership, Conflict Resolution

Professional Interests: Distributed Systems, Microservices Architecture, SaaS Product Development, Performance Optimization, DevOps Automation, Container Orchestration, Backend Engineering, System Design, Cloud-Native Application Development