

Nikolai Koksharov

Software Engineer

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Professional Experience

Neoflex Tech

Mar 2021 – present

Senior Software Engineer · Banking Services

Backend development for a banking client

- Design microservice interactions and implement services processing tens of thousands of transactions per day
- Develop internal backend services and BFF (Backend for Frontend) components within a distributed system of 20+ microservices
- Implement asynchronous data aggregation pipelines and multi-step integration workflows, providing users with seamless access to services
- Develop and maintain shared core libraries used across 50+ microservices, standardizing development practices and reducing implementation time from weeks to days
- Support production services, investigate incidents, and resolve application and integration issues
- Use an internal enterprise AI coding agent as part of my day-to-day development workflow

Training Center:

- Conduct technical interviews, deliver lectures, and mentor junior-level engineers

Achievements:

- Reduced production resource consumption by 30% and service response times by 25% by optimizing critical-data login
- Improved service performance by 60% together with the team by refactoring the sensitive-data masking implementation
- Received a team award in 2025 for launching a breakthrough banking product
- As part of the team, received multiple awards for product quality and operational efficiency

Neoflex

Jan 2021 – Mar 2021

Software Engineer · Corporate platform Neoflex OKR

Backend development for the company's internal platform

- Developed internal corporate services using Spring Boot, PostgreSQL, and Keycloak

Neoflex

Sept 2020 – Dec 2020

Junior Software Engineer · Factoring

Modernization of a banking system and migration of business logic from a legacy architecture to microservices

- Migrated complex undocumented business logic from Oracle PL/SQL stored procedures to new Java/Spring Boot microservices (5+ services)

Achievements:

- The new implementation reduced the release cycle from months to weeks and established a system designed for long-term maintainability

Sber

July 2020 – Sept 2020

Software Engineering Intern · Banking Process Audit Department

Audit process automation

- Developed a Scala/ScalaFX application for collecting information from public sources based on predefined criteria
- Implemented data aggregation, deduplication, and export to structured XML and Word documents

Achievements:

- Reduced staff time spent on the task several-fold by replacing manual information search and processing with an automated application

Technical Skills

Backend & Architecture: Java (11/21+), Spring Framework (Boot, Security, Data, Cloud), Microservices Architecture, RESTful API, SOAP, OpenAPI, Keycloak (OAuth 2.0 / OIDC)

Databases & Data Access: PostgreSQL, Oracle Database, SQL, PL/SQL, Hibernate / JPA, JDBC, jOOQ, Liquibase, Flyway

Messaging & Caching: Apache Kafka, Redis

Infrastructure & CI/CD: Docker, Podman, Kubernetes (K8s), Red Hat OpenShift, Git, GitLab / Bitbucket, Gradle, Maven, Jenkins, TeamCity, Linux, Coolify

Observability: Prometheus, Grafana, Jaeger / OpenTelemetry / OpenTracing, EFK Stack (Elasticsearch, Fluentd, Kibana), Micrometer

Testing: JUnit, Mockito, Testcontainers, Integration Testing

AI & Automation: OpenAI Codex, OpenCode, Prompt Engineering, Skills, MCP, Spec-Driven Development, Enterprise AI Coding Agents

Additional Languages & Technologies: Kotlin, Go (Golang), TypeScript, React, Astro, C++

Selected Projects

Toudocu

Agent-agnostic documentation workflow for developers and AI coding agents | Go, React, Git, Markdown

Kafi Kafi

Lightweight and fast Apache Kafka desktop client | Kotlin, Compose Desktop, Gradle

ImiPeek

Browser extension for private, on-device AI-powered text translation | TypeScript, HTML

Education

Voronezh Institute of High Technologies

Sept 2021 – June 2024

Master's degree in Computer Science and Engineering

Graduated with honors

Voronezh Institute of High Technologies

Sept 2017 – Sept 2021

Bachelor's degree in Information Systems and Technologies

Graduated with honors

Languages

Russian: Native

English: B1