

NIKITA KOROLEV - BACKEND ENGINEER

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PROFILE

A dedicated and results-driven software engineer with 5+ years of expertise in distributed systems, low-latency algorithms and highly loaded microservices. Recognized for a strong mathematical background and analytical problem-solving abilities, consistently delivering scalable, efficient, and reliable solutions. Demonstrated expertise in building robust architectures and system performance optimization.

EXPERIENCE

FAANG School | Java Developer | Amsterdam, Netherlands (remote)

Dec 2023 - Jan 2025 (1 year 2 months)

Startup launching system (9 microservices), supporting team and project management, setting goals for transparent development and scalability

Java 17, Spring Boot, Hibernate, Scrum, MinIO (Amazon S3), Redis (Pub/Sub), Kafka, PostgreSQL, Liquibase, JUnit, Mockito, Gradle

- news feed: solved the celebrity problem with scalability and reliability guarantees
- url shortener: implementation with asynchronous caching to ensure low latency
- notification system: integration with Google SMTP, Telegram and Vonage APIs
- premium features: priority profile display in search results for premium users
- optimized access to frequently requested data with Redis caching, managed inter-service communication via Kafka and Redis Pub/Sub
- development following Scrum methodology (weekly sprints) by managing tasks in Jira, pair programming sessions and daily code reviews
- implemented flexible and dynamic filtering using QueryByExample and Specification/CriteriaBuilder APIs

Arekan Bilgi Teknolojileri | Backend Developer | Kyrenia, Cyprus

Jun 2022 - Nov 2023 (1 year 6 months)

Booking management system (4 microservices) used by hotels in Northern Cyprus

Java 17, Spring Boot, Testcontainers, Kafka, Docker, Flyway, Swagger, Maven, Gitlab CI

- implemented event driven architecture, leveraging Kafka for seamless and robust async communication between services
- successfully decomposed a heavy microservice into two, providing clearer separation of concerns and enhanced flexibility
- designed, developed and documented a REST API for mobile clients, capable of accommodating shifting customer needs
- designed a notification microservice from the ground up, providing a reusable and flexible interface for future integrations
- made significant contributions to software quality, through integration testing (Testcontainers), code reviews and CI pipelines (Gitlab)

NM-Tech Ltd. | Java Junior Developer | Moscow, Russia

Dec 2019 - May 2022 (2 years 6 months)

Updated a desktop application automating generation of important specifications (generated by Groovy scripts) for memory compilers

Java 8 (Liberica), Java FX, PostgreSQL, Stream API, Concurrency API, JUnit, Maven

- optimized application performance by introducing parallel execution for long running tasks using Concurrency API
- reduced codebase size from 10,000 to 4,000 lines preserving scalable, clean and modular architecture
- successfully migrated a legacy project from Swing to JavaFX

Corporate web application developed for monitoring employee performance

Java 8, PostgreSQL, Spring Framework (Web, Data JPA, Security), Hibernate, JUnit, Maven

- contributed under the guidance of a senior engineer, sharing responsibilities regarding feature design for existing architecture
- developed a strong foundation with core Spring (without Spring Boot), acquiring knowledge of framework's internal structure
- handled database operations using Spring Data JPA with Hibernate, implemented role-based access control using Spring Security
- demonstrated proficiency with SQL, including optimized searches using indexes and automation of secondary actions with triggers

EDUCATION

Final International University (FIU) | Kyrenia, Cyprus

2022 - 2024

MSc Software Engineering (GPA - 3.30/4.00)

Research Institute of Electronic Technology (MIET) | Moscow, Russia

2019 - 2022

BSc Applied Mathematics (GPA - 3.60/5.00)

University of Manchester (UoM) | Manchester, UK

2017 - 2019

MSc Mathematics (re-registered in a different educational institution - MIET)

Loretto School | Musselburgh, UK

2015 - 2017

A-levels (Russian, Mathematics, Further Mathematics - A*AB)

Advanced Subsidiary (Mathematics, Further Mathematics - AA)