

# Nikolay Kudinov

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## SUMMARY

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Highly skilled backend developer with expertise in designing and optimizing distributed systems and data-intensive applications. Proficient in Java, Scala with extensive experience in building highly scalable, fault-tolerant solutions for e-commerce and financial domains. Deep knowledge in database internals, query optimization, and performance tuning, with a proven ability to enhance system reliability and efficiency.

## EXPERIENCE

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### Senior Software Engineer

05/2021 – Present

*Zalando*

*Berlin, Germany*

- Designed and implemented an innovative suspicious activity detection system based on address similarity, capable of detecting 97% of similar addresses, significantly improving genuine customers purchase success rates for popular items.
- Developed an emergency onboarding process of hyped articles to stabilize systems during peak demand, ensuring consistent availability and enhancing the fault tolerance of the entire Zalando system.
- Optimized backend algorithms to improve the turnover of limited-stock items, resulting in increased sales performance.
- Communicated effectively and closely collaborated with other teams during the collection requirement phase for GhostAds, leading efforts to ensure cross-functional alignment.
- Optimized the Ad Campaign Management endpoints, reducing response latency by 40% and enhancing system throughput, significantly improving the Ads platform's responsiveness under high-load conditions.

### Senior Java/Scala Developer

09/2014 – 04/2021

*Deutsche Bank*

*Germany*

- Developed and optimized Job Manager, a system for tracking trade processing job statuses, enhancing monitoring and efficiency.
- Reduced Input Data Cache (IDC) startup time by 60%, improving data availability for a 15K-node calculation grid that supports trade, market, and reference data.
- Optimized CVA risk calculations, reducing processing time from 24 hours to 4 hours, enabling multiple intra-day recalculations and enhancing business agility.
- Developed multiple data collectors to gather trade and risk data, supporting FRTB (Fundamental Review of the Trading Book) compliance by ensuring accurate capital calculations under Basel III regulations.

### Senior Software Engineer

10/2012 – 08/2014

*Rostelecom*

*Russia*

- Developed multiple extensions for the General Ledger module, improving functionality and integration within the financial system.
- Proactively optimized system performance, enhancing overall efficiency with a focus on salary calculation processes, the most critical system component, through advanced SQL tuning and query optimization.

### Software Engineer

11/2006 – 10/2012

*Luxoft (Dell Dedicated Center)*

*Russia*

- Developed an Order Rejection System, streamlining error detection for the support team and improving issue resolution during order processing.
- Led the development of an interface to efficiently load orders into the core backend system, enhancing order processing workflows.
- Spearheaded a global data invoice and order migration project for 16 APAC business units, ensuring seamless data transition and system integration.

## LEADERSHIP

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- Moderator for the DDIA & System Design Telegram community, comprising 1,400+ job seekers and industry mentors. Actively involved in moderating online events focused on discussing and analyzing research papers related to distributed systems.
- Founder of the largest Apache Spark Telegram community. Organized and hosted 10+ online meetups in 2020, focusing on Apache Spark internals. Delivered presentations, available at: [apache\\_spark\\_pptx](#).

## EDUCATION

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### **Moscow Aviation Institute (National Research University)**

*Master's Degree, Applied Mathematics*

## SKILLS, LICENSES, AND CERTIFICATIONS

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- **Programming Languages:** Java, Scala, SQL, PL/SQL, Python
- **Databases & Storage:** Oracle, PostgreSQL, ClickHouse, DynamoDB
- **Distributed Systems & Data Processing:** Apache Spark, Flink, Akka Streams, Alpakka, Apache Kafka
- **Backend & Cloud Infrastructure:** Spring Boot, Kubernetes, AWS (IAM, S3, DynamoDB)
- **Performance Optimization:** Advanced SQL tuning, query optimization, database internals, and high-throughput system design
- **Certifications:** Oracle Certified Professional, Java SE 8 Programmer, Functional Programming Principles in Scala