

# Nikolay Kudinov

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## SUMMARY

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

<b>Senior Software Engineer</b> <i>Zalando</i>	05/2021 – Present <i>Berlin, Germany</i>
– 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.	
<b>Senior Java/Scala Developer</b> <i>Deutsche Bank</i>	09/2014 – 04/2021 <i>Germany</i>
– 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.	
<b>Senior Software Engineer</b> <i>Rostelecom</i>	10/2012 – 08/2014 <i>Russia</i>
– 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.	
<b>Software Engineer</b> <i>Luxoft (Dell Dedicated Center)</i>	11/2006 – 10/2012 <i>Russia</i>
– 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

- 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](https://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