

# Sergei Vasilev

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Senior Software Engineer

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## EXPERIENCE

### Booking.com

Senior Software Engineer

April 2023 — Present

- **Technically led** the integration with Citi bank, overseeing collaboration across multiple business units and leveraged the team by delegating independent project pieces to developers.
- Directed the integration with PayPal and owned stakeholder management across multiple departments, resulting in **seamless daily payments of 2M**.
- Enhanced the pipeline for collecting code quality metrics, developed a quality gate based on these metrics, and implemented it **across 22 services department-wide**.
- Improved the partner payment experience, resulting in an **annual TTV increase of 29.3M** and a reduction in cancellations **worth 30K annually**.

### Yandex

Senior Software Engineer

May 2021 — March 2023

- **Technically led** the payment system launch, supporting the transaction volume growth from **\$1,000 to \$200,000 per month**.
- Pioneered the design of an event-sourcing architecture for the payments, ensuring seamless scalability and **zero downtime**.
- Built **Know Your Customer (KYC)** processes from scratch, integrating with external services to guarantee secure and compliant user verification.
- Designed and developed a housing and communal services module, resulting in a **15% revenue increase**.
- Established gRPC-based API contracts, streamlining **cross-team communication** and ensuring consistency across the system.

### Haulmont

Technical Lead

February 2020 — May 2021

- Led a team of **5 developers** to successfully complete **2 projects**, ensuring timely delivery and alignment with project goals
- Decreased the **latency of hard processes by 40%** through the implementation of caching and optimization techniques
- Assembled highly complex reports logic based on the Cuba framework and YAML in a very short timeframe, addressing critical business requirements.

### Digital Design

Senior Software Engineer

June 2018 — August 2019

- **Technically led** a team of **3 developers** to successfully design and launch a document management system in a short timeframe.

### EPAM Systems

Software Engineer

June 2017 — June 2018

- Investigated and optimized opaque business logic for discounting in the POS system.

### Exactpro Systems

Software Engineer

October 2015 — May 2017

- Provided end-to-end and unit tests for entire project with **86% coverage**.

### Neoflex

Junior Software Engineer

July 2013 — February 2015

- Provided and supported Jira plugins and special reports for internal infrastructure system.

## SKILLS

Languages	Java, Kotlin, Scala, Perl, SQL
Tools and frameworks	AWS, Apache Kafka, Grafana, Elasticsearch, MySQL, Cassandra, Spring, Hibernate, Concurrency, gRPC

## EDUCATION

Postgraduate study in Mathematics and Computer Science,	Saratov State University	2020
Master's degree in Mathematics and Computer Science,	Saratov State University	2016
Specialist's degree in Mathematics and Computer Science,	Saratov State University	2014

## MAIN PUBLICATIONS

- *Vasilev S.V.* An inverse spectral problem for Sturm-Liouville operators with singular potentials on arbitrary compact graphs, Tamkang Journal of Mathematics, 50(3), 2019.
- *Bondarenko N.P., Buterin S.A., Vasilev S.V.* An inverse spectral problem for Sturm-Liouville operators with frozen argument, Journal of Mathematical Analysis and Applications, 472(1), 2019,
- *Buterin, S. A. and Vasilev, S. V.* On uniqueness of recovering the convolution integro-differential operator from the spectrum of its non-smooth one-dimensional perturbation, Bound Value Problem, 55, 2018.