

# Aleksandr Salatich

Software Engineer

3/10 Kushelevskaya doroga street, 195220

St. Petersburg, Russia

+7(981)966-8126

✉ [salatiqes@gmail.com](mailto:salatiqes@gmail.com)

LinkedIn: [www.linkedin.com/in/571001124](http://www.linkedin.com/in/571001124)

GitHub: [www.github.com/Salatich](http://www.github.com/Salatich)

*Ipse se nihil scire id unum sciat*

## Personal details

Birth April 20, 1992

Marital status Unmarried

Citizenship Russia

## Education

2016-present **PhD Program, Information technology and numerical methods**  
*Physics Faculty, Department of Computational Physics, St.Petersburg State University, Russia*

2014-2016 **Master in Applied Mathematics and Physics**  
*Physics Faculty, Department of Computational Physics, St.Petersburg State University, Russia*  
Master Thesis in June 2016 (grade 5 of 5): Development of Distolymp software subsystems (written in Russian)

2010-2014 **Bachelor in Applied Mathematics and Physics**  
*Physics Faculty, Department of Theoretical Physics, Omsk State University, Russia*  
Bachelor Thesis in July 2014 (grade 5 of 5): Simulation of dynamic phase transitions in Ising-like systems under a time-dependent oscillating external field (written in Russian)

## Work experience and projects

2018-present **Middle Software Engineer**  
*EPAM Systems*  
[epam.com](http://epam.com)  
Big Data Engineer

2017-2018 **Junior/Middle Java Developer**  
*Rostelecom Contact-Center*  
[omnichat.ru](http://omnichat.ru)  
Development software for communication with customers through digital channels. Add new functionality, bug fixing and refactoring of existing microservice architecture software using Design Patterns (Visitor, Factory, Command etc.). Add new API methods (Spring, Hibernate, PostgreSQL, OracleDB) for receiving messages from customers through messengers, social networks and site : telegram, viber, vk, facebook, widget. Development of new microservices (Spring, ActiveMQ, RabbitMQ). Test coverage of code via unit and integration tests (JUnit, Mockito). Code review (Bitbucket, GitLab). Installing updates with DevOps team (Jenkins, Docker, Tomcat, Glassfish, WebLogic). Communication with Delivery Managers to formation of requirements. Communication with Scrum Master to task evaluation and distribution of tasks among small developers team

2017 **Junior Full Stack Developer**

*JSC Bank «PSCB»*

`online.pscb.ru`

Development Payment Aggregator and Payment System (e-commerce). Add new functionality to existing payment system. Add new API methods for payments processing (Grails Framework) on server side. Add new buttons, events and templates (JavaScript, Ajax, JSP templating) on client side

2014-2016 **Junior PHP Developer**

*St.Petersburg State University*

`distolymp2.spbu.ru`

Development of Distolymp program complex for conduction Online Competition in Physics (part-time employment). Add new functions and submodules (PHP, JavaScript, Ajax) to current system

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## Skills

**Programming languages:** Java, Groovy, Python, SQL

**Frameworks:** Spring Framework, Hibernate, JUnit, Mockito, Hadoop, Spark, Apache Hive, Apache Maven, Grails

**Industry Knowledge:** Agile, SOLID

**Databases:** PostgreSQL, Oracle

**Tools & Technologies:** Apache Kafka, Jackson, RabbitMQ, ActiveMQ, Jira

**Java application servers:** Tomcat, GlassFish, WebLogic

**IDEs:** IntelliJ IDEA, NetBeans

**VCS:** Git, SVN

**Continuous Integration:** Jenkins

**Virtualization:** Docker, Oracle VM VirtualBox

**Mathematical software:** Maple, SymPy

**Document preparation systems:**  $\text{\LaTeX}$ , Microsoft Office

**OS:** Linux, Microsoft Windows

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## Additional Information

### Conferences and publications

2018 **Confluent Heun equation and equivalent first-order systems**

Polynomial Computer Algebra 2018

<https://pca-pdmi.ru/2018/files/21/pca18n.pdf>

2017 **Confluent Heun equation and confluent hypergeometric equation**

Zap. Nauchn. Sem. POMI

<https://link.springer.com/article/10.1007/s10958-018-3865-2>

2015 **A Distribution Model for Fuels Production and Consumption in the World**

International Student Conference, Science and Progress, St.Petersburg, Peterhof

2015 **Distolymp multi-platform program complex for testing knowledge and practical skills**

*Modern Information Technology. Theory and practice*

Proceedings of the 2nd All-Russian Research-to-Practice Conference, Cherepovets

### Additional Education

2013 **Advanced Training Course**

*Institute of Mathematics and Information Technologies, Omsk State University, Russia*

Introduction to Programming

**Stepic**

Java. Basic Course

Algorithms: theory and practice. Methods

Introduction to Computer Architecture. Elements of Operating Systems

**Coursera**

Machine Learning (Stanford)