Aleksandr Salatich

Senior Software Engineer

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Personal details

Current location: Georgia, open for relocation

About

Big Data Engineer with 4 years of relevant experience. Can study new technologies in a short period of time. Have advanced level of problem solving skills with extremely positive feedback from my colleagues. AWS Certified developer. Have researcher's degree in Physics and publications in international journals.

Work experience and projects

2021-present **Lead developer**
EPAM Systems
Project: Enterprise data and analytics platform "ForeSight". Recognized by The FutureEdge 50 Award
• Launched new project as a Lead developer to build Financial Data Marts and visualize the data
• Provided different PoC's to optimize the technology stack (for ex. implementation Hyper API for Tableau extracts / use AWS Aurora to visualize data for mobile applications / use Splain for data processing visualization)
• Implemented a library to generate Hyper Tableau extracts from parquet files to speed up extract time by 500%
• Migrated pipelines from Glue 2.0 to Glue 3.0 (Spark 2.4.3 to Spark 3.1.1)
• Optimized current jobs from time/costs perspective by analyzing the execution plans (reduce costs up to 50%)
• Formulated quality gates to generalize data products across platform and took a part in introduction of SonarQube (together with DevOps team)
Stack: AWS Cloud, Spark, Scala, Python, Tableau API

2018-2021 **Software Engineer**
EPAM Systems
Project: Enterprise data and analytics platform "ForeSight". Recognized by The FutureEdge 50 Award
• Implemented different pipelines from scratch to ingest data from different sources to Data Lake in AWS
• Reduced time/costs of Glue jobs which use JDBC connection in Spark 2.2 by 50%
• Migrated pipelines from Glue 0.9 to Glue 2.0 (Spark 2.2 to Spark 2.4.3)
• Took a part in implementation of common library (across whole platform) to make it reusable and speed up the development process
Stack: AWS Cloud, Spark, Scala, Python

2017-2018 **Java Developer**
Rostelecom Contact-Center
Project: Software for communication with customers through digital channels (Live Chat Software)
• Successfully integrated external AI solution to reduce operators workload and costs
• Improved CI/CD process to reduce delivery time by 100%
Stack: Java, Spring Framework, WebSocket

2017 **Full Stack Developer**
JSC Bank "PSCB"
Project: E-commerce platform / Internet acquiring
• Successfully implemented an integration (via REST) with external systems to receive electronic receipts
Stack: Groovy

Skills

Programming languages: Scala, Java, Python

Frameworks & Technologies: AWS Cloud, Spark, Hadoop Ecosystem

Industry Knowledge: Problem Solving, Agile, Scrum, Kanban

Virtualization: Docker, Oracle VM VirtualBox

Mathematical software: Maple, SymPy

OS: Linux, Microsoft Windows

Licenses & certifications

Education

2016-2020 **Research degree, Information technology and numerical methods**
Physics Faculty, Department of Computational Physics, St.Petersburg State University, Russia
Research Thesis in June 2020 (grade 5 of 5): Analytical and numerical study of confluent Heun functions (written in Russian)

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)

Additional Information

Conferences and publications

2020 **First-Order Ode Systems Generating Confluent Heun Equations**
Journal of Mathematical Sciences

2019 **Antiquantization of the Double Confluent Heun Equation. The Teukolsky Equation**
Russian Journal of Nonlinear Dynamics

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