SOFTWARE ARCHITECT
Qualifications

- Distributed systems expert with 10+ Java/J2EE experience and 5+ years of hands-on experience in building in-memory data grid with focus on scalable real-time performance.
- Highly motivated team player eager to apply analytical skills to solve hard problems.

Experience
Software Architect 12/2010 to Current Verizon Communications Washington , DC

- **Designed and implemented world's first in-memory execution engine for Hadoop MapReduce (ScaleOut hServer), which sped up MapReduce jobs up to 40x through eliminating disk IO and intermediate key sorting.**
- Implemented distributed version of ConcurrentMap, which decreased memory footprint of small objects by up to 100x using chunked object storage.
- Delivered a talk at CloudExpo 2013 ("Enabling Real-Time Analytics Using an In-Memory Data Grid"), which received praise from the audience for technical insights.
- Co-authored a paper on real-time analytics ("How In-Memory Data Grids Can Analyze Fast-Changing Data in Real-Time").

Software Engineer 05/2008 to 08/2010 Pepco Energy Services Odenton

- Ported caching APIs for in-memory data grid from C# to Java.
- Added additional features at customer request, such as database persistence connector, custom serialization, authentication, bulk operations, and object querying.
- Implemented framework for parallel method invocation across distributed store, which delivers scalable performance by eliminating the need to move the queried data across the network.
- The implementation was benchmarked to perform invocation on 1TB of data in less than 5 seconds.

Java/J2EE Developer 03/2005 to 04/2008 Synechron Inc Charlotte

- Worked as part of the small agile team to add new features and fix bugs in the online educational portal.
- Implemented the auto-grading module for student answers.
- Worked with customer support team to resolve requests, and implement hotfixes.

Skills

- Java, C/C++, C#, Python
- Hadoop (MapReduce, YARN), Hive, Spark, Oracle Coherence
- Amazon EC2, Windows Azure

Education
PhD : Applied Physics and Mathematics June 2010 Moscow Institute of Physics and Technology City , Russia
Bachelor of Science : Applied Physics and Mathematics June 2005 Moscow Institute of Physics and Technology City , Russia

3.8 GPA, *magna cum laude* Â

Awards

Selected as one of the 15 candidates for the International Physics Olympiad team in 2001.