SERGE AKTANOROVICH

Software Engineer

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ABOUT

Performance-oriented Software Engineer to design and implement product features from the early stages to run in production, working in teams ranging from 2 to 20 members, both remotely and on-site. Built full cycle of development: from gathering product owner requirements to establishing fully automated release process with high test coverage, detailed analytics and CI/CD.

Still having fun tackling challenging problems and applying knowledge in CS to solve work tasks efficiently.

EXPERIENCE

Nielsen Media Research ⧉   12/2022 – 05/2025

As a member of the Core Engineering Team, I was responsible for ensuring the reliability and scalability of backend systems supporting media analytics platforms. I led the design, development, and deployment of software applications, product features, and data infrastructure tailored to the media market. To accelerate development workflows, I created internal tools that streamlined debugging and feature prototyping. I engineered performance-optimized algorithms that improved system throughput by a factor of four. Additionally, I designed a dynamic persistence layer capable of supporting over 30,000 client-specific database tables, and developed graph-based models to represent complex business flows involving more than 10,000 nodes. To enable efficient data access, I implemented custom data structures that achieved constant-time retrieval across distributed graphs.
Tech: MS .Net Core, C#, Python, PostressQL, AWS, GitLab, Agile

Google ⧉   10/2021 – 10/2022

Contributed to the development of the Horizontal Auto-Scaler (HAS), enhancing the scalability and efficiency of distributed systems for large-scale data processing. Improved the reliability of core GCP controllers by identifying and resolving critical issues, resulting in increased system robustness. Extended GCP UI dashboards with advanced telemetry features, enabling deeper visibility into job execution, task performance, and resource utilization metrics including CPU and I/O.
Tech: C++, Java, Python, Go, JS, AngularJS, GCP, Agile

ScienceSoft ⧉   08/2015 – 09/2021

Developed software solutions tailored to the media analytics sector, focusing on data visualization and interactive reporting. Designed and implemented numerous WPF-based user interfaces, including dynamic charts, bar graphs, and word cloud visualizations to support audience insights and market trends. Additionally, architected a distributed system for processing complex graph models without reliance on a centralized master node, enabling scalable and resilient data computation across multiple endpoints.
Tech: MS .Net Core/Framework, DevExpress, MVVM, Math, Agile

SVSG ⧉   05/2014 – 06/2015

Worked in a team (3-5 persons) across many projects using .Net stack, including
- Voice API (USA, Twilio)
- Ads Market (Japan, Yahoo)

Tech: MS .Net Core / Framework, JS, Agile

Digital Air ⧉   09/2012 – 11/2015

Developed software tools to interface with an array of 60+ Canon EOS cameras for synchronized visual effects capture. Designed and implemented a custom communication protocol enabling remote machine coordination without reliance on a centralized master node.
Tech: MS .Net Framework, WPF, MVVM, Canon SDK

[BSU of Informatics and Radioelectronics](#)⬈   09/2008 – 11/2014

I conducted a practical course on the Microsoft .NET platform for undergraduate students, focusing on applied development techniques and platform capabilities. Additionally, I designed and delivered a comprehensive course on Algorithms and Data Structures, emphasizing both theoretical foundations and hands-on problem-solving. Between 2009 and 2013, I organized and coordinated the BSUIR Programming Championship, fostering a competitive academic environment and promoting excellence in algorithmic thinking among students.

InSoft Engineering   04/2007 – 04/2014

Hardware / Research

Collaborated with a team of software and electrical engineers to develop a distributed software solution for the Oil & Gas sector, enabling real-time analysis and visualization of field data acquired from proprietary hardware systems. Contributed to the design and implementation of software interfaces for wireless sensor networks, supporting remote monitoring and data acquisition in industrial environments. Designed/developed algorithms for ellipsoid fitting and signal processing to calibrate sensors.

Analytics

Served as a Financial Systems Analyst at State Street Bank, where I addressed client-specific data challenges by developing and deploying advanced SQL scripts for issue resolution and reporting. Led performance optimization efforts for an Oracle-based trade engine, achieving significant reductions in memory usage and processing time. Designed and implemented the initial queuing mechanism for trade data processing within a clustered Oracle RAC environment (3-node configuration), enhancing throughput and system scalability.

Tech: MS .Net Framework, MS SQL, Oracle, FpML, Zigbee, DevExpress, 3D Graphics, MVVM, Math, Agile

EDUCATION

[BSU of Informatics and Radioelectronics](#)⬈

POST GRADUATE COURSE   2009 - 2012

Research in Non-linear optimization methods

MASTER DEGREE   2008 - 2009

Research in probabilistic networks

BACHELOR DEGREE   2003 - 2008

Information technologies and computer science