

Oleksandr Syrotenko

Address is available by request

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🎧 Fly-Style

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BIO

My official name is Oleksandr, but I prefer name **Sasha**. I am software engineer and public speaker currently working for Hazelcast. My majorly interest (and the strongest passion) is a **compilers** development. Usually, I am making difference.

AREAS OF INTEREST

- Compilers design and development.
- SQL and storage engines development.
- Runtimes design and development, memory management algorithms.
- Concurrent data structures and algorithms.

HIGHLIGHTS | KEY SKILLS

- Programming/query languages: Java, SQL, C++, JavaScript.
- Solid systems and infrastructure programming capabilities and experience.
- Mentorship and small team management.
- Strong algorithms and data structures knowledge.
- Database development experience with Apache Calcite.
- Languages: English (B2), German (A2), Russian, Ukrainian (mother tongue)

WORK EXPERIENCE

- Hazelcast** **Kyiv, Ukraine**
Senior Software Engineer : SQL engine developer *January, 2021 – present*
- Distributed SQL engine and streaming engine writer in distributed diverse team.
 - Designed and implemented different CREATE and DROP statements for SQL engine.
 - Co-designed and developed stream to stream JOIN for SQL and streaming engine.
 - Designed and implemented DML layer for streaming part of SQL engine.
 - Integrated multiple optimization rules for SQL engine.
 - Developed wide list of SQL operators and functions according to SQL-2003 standard.
 - Designed and developed distributed streaming index scan for Hazelcast SQL engine.
 - Integration and support of SQL engine fuzzy testing (SQLancer).
 - Co-designed and implemented streaming window aggregation functions.
- Cybervision, Inc** **Kyiv, Ukraine**
Software Engineer / Performance Engineer, Contract *January, 2020 – January, 2021*
- Developed IoT agent with Linux, Win and QNX OS support.
 - Took part also as a performance engineer and gain more than 2.5x performance boost from original implemenetation.
 - Provide core features : fast data processing and I/O;
 - Developed agent application self-updating algorithm.
- ActiveJ, ex-datakernel.io** **Kyiv, Ukraine**
Software Engineer in Java performance. Contract *June 2019 – December 2019*
- We have done efficient asynchronous Java framework for and scalable web, network and big data solutions.
- Created runtime class tweaking tool- "ActiveJ Specializer".
 - Made ActiveJ RPC and memcached RPC server one of the most performant in JVM world.
 - Made ActiveJ serializers the fastest(!) in JVM world with my team.
 - Provided benchmarks for every major ActiveJ component.
- Aeneas** **Kyiv, Ukraine**
Blockchain Software Engineer *December, 2017 – December, 2019*
- Created mining algorithm, transaction sending and network support for blockchain platform based on Akka and Electron.

WORK EXPERIENCE (INTERNSHIP)

- SAP SE** **Walldorf, Baden-Württemberg, Germany**
Software Engineer Intern *July 2018 – Septe 2018*
- Integrated Google Cloud Functions for SAP DataHub, multicloud tool for data scientists.
- Financial Group Aurora** **Kyiv, Ukraine**
Software Engineer Intern *Apr 2016 – October 2016*
- Developed custom trading platform for exchange analysis. Improved runtime performance of exchange analysis by 15 percents.

EDUCATION

- Taras Shevchenko National University of Kyiv** **Kyiv, Ukraine**
Software Engineering, Masters *Sept 2013 – May 2019*