

Oleksandr Syrotenko

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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 interests are **compilers, virtual machines and SQL engines** development. Making difference.

AREAS OF INTEREST

- JIT/AOT compilers, compilers design, memory management algorithms.
- Browser engines development.
- Concurrency, parallelism and formal memory models.
- Complex data structures and algorithms.
- Both distributed and standard databases development.
- Program formal verification.

KEY SKILLS

- Prog./query languages: Java, SQL, Scala, asm, C++17, WebAssembly, JS.
- Solid algorithms and data structures knowledge.
- Technologies:
 - JVM frameworks : DataKernel (now ActiveJ), Akka, jooq.
 - C++ : Qt5, abseil, gtest, OpenSSL, minizip, conan.io.
 - Good knowledge of different Unix tools.
 - Strong system programming capabilities.
 - Virtualization and Cloud : Docker, rkt, k8s.
 - Solid background in math.
 - Build systems : Maven, Gradle, CMake, make, Ninja.
 - Languages:
 - CI/CD: Jenkins, Travis CI, GitHub Actions.
 - English (B2)
 - German (A2)
 - Russian (mother tongue)
 - Ukrainian (native)

WORK EXPERIENCE

Hazelcast <i>Senior Software Engineer : SQL engine developer</i>	Kyiv, Ukraine <i>January, 2021 – present</i>
<ul style="list-style-type: none">– We are making distributed SQL engine for fast, fail-safe and handy data querying.– Implemented SQL engine fuzzy tester.– Developed wide list of SQL operators and functions according to SQL-2003 standard.– Developed DML layer in streaming part of SQL engine.	
Cybervision, Inc <i>Software Engineer, Contract</i>	Kyiv, Ukraine <i>January, 2020 – present</i>
<ul style="list-style-type: none">– Developed IoT agent with Linux, Windows and QNX OS support.– Support custom 3rd parties forks stability and updates (Qt, OpenSSL, abseil)– Provide core agent’s fucntionality : fast data loading and uploading;– Developed agent application self-updating for each supported platform.– Support OPC UA and various SQL databases as data sources support .– Support integration and e2e tests using Kotlin, TestNG and test-containters.	
ActiveJ, ex-datakernel.io <i>Software Engineer in Java performance. Contract</i>	Kyiv, Ukraine <i>June 2019 – December 2019</i>
<p>We have done efficient asynchronous Java framework for and scalable web, network and big data solutions.</p> <ul style="list-style-type: none">– Created runtime class tweaking tool called "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 <i>Blockchain Software Engineer</i>	Kyiv, Ukraine <i>December, 2017 – December, 2019</i>
<p>Created mining algorithm, transaction sending and network support for blockchain platform based on Akka and Electron.</p>	

WORK EXPERIENCE (INTERNSHIP)

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

EDUCATION

Taras Shevchenko National University of Kyiv <i>Software Engineering, Masters</i>	Kyiv, Ukraine <i>Sept 2013 – May 2019</i>
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PUBLIC TALKS (5 TALKS OVERALL, LISTED 2 THE MOST KNOWN)

- **DataKernel : Mastering Ukrainian highload framework.** XPDays, Kyiv, Ukraine | November, 2019.
- **Introduction to JavaScript Virtual Machines.** KropJS Conference, Kropivnytskiy, Ukraine | December, 2018.