

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 KaaIoT. Majorly interested in compilers and virtual machines. Making difference.

AREAS OF INTEREST

- Compilers, interpreters, runtimes.
- Concurrency and formal memory models.
- Formal verification of programs, compilers and OS.
- Performance tools, specific developer tools.

KEY SKILLS

- Programming languages: C++20, Java, JS, wasm.
- Knowledge of different relational and NoSQL databases.
- Technologies:
 - Good knowledge of Unix tools (especially profilers).
 - Compilers specific tools : ANTLR4, turbolizer, VisualVM.
 - C++ : Qt5, abseil, gtest, openssl, emcc.
 - Build systems : CMake, Ninja, Maven, Gradle, Webpack.
 - CI/CD: Jenkins, Travis CI, GitHub Actions.
 - Backend : DataKernel, Akka Framework, Express.js.
 - Frontend : HTML, CSS, React + Redux, Webpack, ThreeJS/PixiJS.
 - Virtualization : Docker, rkt.
 - DB : SQLite3, MariaDB, PostgreSQL, MongoDB, Yandex Clickhouse.
- Solid algorithms and data structures knowledge.
- Strong knowledge of OOP and functional programming principles.
- Strong system programming capabilities.
- Solid background in mathematics.
- Languages:
 - English (B2)
 - German (A2)
 - Russian (native)
 - Ukrainian (fluent)

WORK EXPERIENCE

KaaIoT **Kyiv, Ukraine**
C++ Software Engineer *Jan 2020 – present*
Low-level C++ development.

datakernel.io **Kyiv, Ukraine**
Performance Engineer, contractor *July 2019 – present*
We are doing efficient asynchronous Java framework for and scalable web, network and big data solutions.

- Made DataKernel's serializers the fastest in JVM world with my team.
- Made DataKernel's RPC and memcached RPC server one of the fastest in the world.
- Provided benchmarks for every major component, enabled Jigsaw modules for DataKernel's Java 9+ projects.

Aeneas **Kyiv, Ukraine**
Blockchain Software Engineer *Dec 2017 – June 2019*
Blockchain platform as threshold pledge system. Created mining algorithms, transaction sending and network support for blockchain desktop application creation. Used Akka Actors, Akka Streams and Electron for blockchain desktop application creation.

SAP SE **Walldorf, Baden-Württemberg, Germany**
Software Engineer Intern *July 2018 – Sep 2018*
Integrated Google Cloud Functions for SAP DataHub.

Financial Group Aurora **Kyiv, Ukraine**
Software Engineer Intern *Apr 2016 – October 2016*
Custom trading platform and applications for exchange analysis development. Improved runtime performance of exchange analysis by 15 percents, which gave us possibilities to open extra orders and gain more profit.

EDUCATION

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

PUBLIC TALKS

- **DataKernel : Mastering Ukrainian highload framework.** XPDays, Kyiv, Ukraine | November, 2019.
- **Introduction to JavaScript Virtual Machines.** KropJS Conference, Kropivnytskyi, Ukraine | December, 2018.
- **Multithreading in JS. Myth or reality?.** KyivJS 18, Kyiv, Ukraine | April 2018.
- **Garbage collection in V8 virtual machine.** KyivJS 16, Kyiv, Ukraine | November 2017.