

# 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 DataKernel. Majorly interested in compilers and virtual machines. ZetaVM GC implementor. 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++ Java, Scala, JavaScript Jedi, asm.
- Knowledge of different relational and NoSQL databases.
- Technologies:
  - Good knowledge of Unix tools (especially profilers).
  - Compilers specific tools : ANTLR4, turbolizer, VisualVM.
  - Backend : DataKernel, Akka Framework, Express.js.
  - Frontend : HTML, CSS, React + Redux, Webpack, ThreeJS/PixiJS.
  - Google Cloud (BigQuery, Functions, Kubernetes).
  - Virtualization : Docker, rkt.
- Solid algorithms and data structures knowledge.
- Strong knowledge of OOP and functional programming principles.
- Strong system programming capabilities.
- Solid background in mathematics.
- Languages:
  - English (C1)
  - German (A2)
  - Russian (native)
  - Ukrainian (fluent)

## WORK EXPERIENCE

### datakernel.io

Performance Engineer, contractor

Kyiv, Ukraine

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

Blockchain Software Engineer

Kyiv, Ukraine

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

Software Engineer Intern

Walldorf, Baden-Württemberg, Germany

July 2018 – Sep 2018

Integrated Google Cloud Functions for SAP DataHub.

### Financial Group Aurora

Software Engineer Intern

Kyiv, Ukraine

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

Software Engineering, Masters

Kyiv, Ukraine

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.