Oleksandr Syrotenko

Address is available by request

🌐 fly-style.github.io   ✉ alex.syrotenko.official@gmail.com   Fly-Style   📱 +380(95)-365-77-88

BIO

My official name is Oleksandr but I prefer name Sasha. I am software engineer and public speaker currently working for Cybervision. Majorly interested in compilers and virtual machines. Making difference.

AREAS OF INTEREST

– JIT/AOT compilers, compilers design, memory management algorithms.

– Concurrency, parallelism and formal memory models.

– Framework/library and developer tools research, design and development.

– Browser engines development.

– Complex data structures and algorithms.

– Program formal verification.

KEY SKILLS

- Prog. languages: Java, Scala, x86/ARM asm, C++17, WebAssembly, JS.
- Technologies:
    - JVM frameworks : DataKernel (now ActiveJ), Akka, jooq.
    - DB : SQLite3, MariaDB, PostgreSQL, SQLServer, MongoDB.
    - C++ : Qt5, abseil, gtest, OpenSSL, minizip, conan.io.
    - Good knowledge of different Unix tools.
    - Virtualization and Cloud : Docker, rkt, k8s.
    - Build systems : Maven, Gradle, CMake, make, Ninja.
    - CI/CD: Jenkins, Travis CI, GitHub Actions.
    - Frontend : HTML, CSS, React + Redux.

- Solid algorithms and data structures knowledge.
- Strong knowledge of OOP and functional programming principles.
- Strong system programming capabilities.
- Solid background in math.
- Languages:
    - English (B2)
    - German (A2)
    - Russian (mother tongue)
    - Ukrainian (native)

WORK EXPERIENCE

Cybervision, Inc   Kyiv, Ukraine
Software Engineer   *January, 2020 – present*

– Developed IoT agent with Linux, Windows and QNX OS support.

– Provide core agent's fucntionality : fast data loading and uploading.

– Provide OPC UA and various SQL databases as data sources support.

– Developed agent application self-updating for each supported platform.

– Support integration and e2e tests using Kotlin, TestNG and test-containters.

– Created and provided all 3rd party libraries support via CMake and conan.io .

ActiveJ, ex-datakernel.io   Kyiv, Ukraine
Software Engineer in Java performance. Contractor   *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 called "ActiveJ Specializer".

– Made ActiveJ serializers the fastest(!) in JVM world with my team.

– Made ActiveJ RPC and memcached RPC server one of the most performant in JVM world.

– Enabled Jigsaw modules for ActiveJ Java 9+ projects.

– Participate in custom OLAP Cube engine development.

– 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. Used Akka Actors, Akka Streams and Electron for blockchain desktop application creation.

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*

PUBLIC TALKS

– **DataKernel : Mastering Ukrainian highload framework**. XPDays, Kyiv, Ukraine | November, 2019.

– **Introduction to JavaScript Virtual Machines**. KropJS Conference, Kropivnytskiy, 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.