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| Vladimir Kostyukov | **web:** vkostyukov.ru  **github:** github.com/vkostyukov  **email:**  vladimir.v.kostyukov@gmail.com  **phone:** +7 (923) 131 97 66 |

I am looking for a job that deals with things I am crazy about: programming languages design and implementation; functional programming; purely functional data structures; design and analysis of algorithms; OOAD/OOP; API design. My workhorses programming languages are **Java** and **Scala**, but I am also getting on well with **C/C++** for system programming.

Experience

**Intel Corporation (Novosibirsk), Performance Engineer, 2011 – …**

* Department: Software Optimization
* Responsibilities: Java platform performance analysis and enabling
* Key Results:

While working in Dalvik VM project (≈3 months) got deep understanding of Dalvik internals (Interpreter, Trace JIT Compiler, GC). As a result, held knowledge sharing meeting with team members about Dalvik infrastructure and fixed 12 functional/performance bugs in x86 JIT-compiler.

Developed (from scratch) a proof of concept PKCS#11 Java Crypto Provider (5k LOC) based on Intel IPP libraries. The prototype shows 6X speedup relative to the default Java implementation.

**Intel Corporation (Novosibirsk), Intern, 2010 – 2011**

* Department: Compilers and Languages
* Responsibilities: Performance tracking and analysis of Intel Compiler for Larrabee platform
* Key Results:

Won an Intel SSG Award for being a pioneer of Intel MIC compiler performance tracking (developed a Perl-based harness and ported initial four workloads from NVidia CUDA SDK).

**Altai State Technical University (Barnaul), Technician, 2007 - 2010**

* Department: IT
* Responsibilities: Maintaining network environment/OS Administration
* Key Results:

Established an approach (based on open source solution) of multicast workstations cloning, which is currently a cornerstone of technical maintaining of ACM ICPC NEERC semi-finals.

Projects

**la4j (Linear Algebra for Java)**

Open source and pure Java library that provides Linear Algebra primitives and algorithms. The la4j was included into JMatBench project – popular benchmarking packages for java matrix libraries.

* Official web-site: http://la4j.org
* A success story of la4j [RU]: http://habrahabr.ru/post/132642/
* Development Blog: http://la4j.blogspot.com/

**Quipu**

Esoteric programming language inspired by “talking knots” – recording devices historically used by Incas.

* GitHub page: https://github.com/vkostyukov/quipu
* Esolang page: http://esolangs.org/wiki/Quipu
* Quipu overview [RU]: http://habrahabr.ru/post/165661/

**Brainfuck MediaWiki Extension**

Simple MediaWiki Extension, which allows to interpret Brainfuck code on wiki pages.

* MediaWiki page: http://www.mediawiki.org/wiki/Extension:Brainfuck
* GitHub page: https://github.com/vkostyukov/brainfuck-wiki-extension

**Kotlin Sublime Package**

Sublime Text 2 Package for Kotlin Programming Language.

* GitHub page: https://github.com/vkostyukov/kotlin-sublime-package
* Plugin announcement: http://www.sublimetext.com/forum/viewtopic.php?f=5&t=10231

Texts

**Publications**

* Distributed Monitoring System (article in scientific magazine) [RU]: http://elib.altstu.ru/elib/books/Files/pa2011\_3/pdf/138kostyukov.pdf
* Optimization default serialization mechanism for Java (Intel Summer School final report) [RU]: http://software.intel.com/ru-ru/articles/Optimizaciya-dostupa-k-zagruzchikam-klassov-JVM-1/

**Blogs**

* Loads of articles about Java and Design Patterns [RU]: http://habrahabr.ru/users/spiff/topics/
* La4j-related topics at development blog [EN]: http://la4j.blogspot.com/
* Personal thoughts about programming [RU]: http://vkostyukov.tumblr.com/

Open Source Activities

**JGraphT,** http://jgrapht.org/

* equals() and hashCode() methods for graphs: https://github.com/jgrapht/jgrapht/pull/6

**Semantic Forms,** http://www.mediawiki.org/wiki/Extension:Semantic\_Forms

* checked tag for “Watch this page” checkbox: https://gerrit.wikimedia.org/r/#/c/12214/1

**pChart4mw,** http://www.mediawiki.org/wiki/Extension:Pchart4mw

* Threshold line parameter for charts: http://code.google.com/p/pchart4mw/source/detail?r=885

Education

**Altai State Technical University (Barnaul), 2006-2011**

* Faculty: **IT**
* Major: **Software Engineering**
* Education level: **MSc Degree**
* Diploma: *"Distributed monitoring and dispatching system of processes in heterogeneous computing environments"*
* Supervisor: Kruchkova E. N., Assoc. of Applied Mathematics department