

Sergiy Kyrylkov

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Qualifications

Highly skilled professional with solid business development experience and a very strong IT background. Proven leadership and problem solving expertise, combined with ability to work independently. Strong communication and presentational skills with fluency in English, Ukrainian and Russian.

Professional Interests

Business development; consulting and outsourcing; Linux; wireless communications; e-commerce and Web applications; Java platform and JEE; Java virtual machines; 64-bit computing; programming languages; compilers.

Accomplishments

- Improved developer's productivity and reduced TCO by 85% by introducing **Eclipse/MyEclipse** combination as the company's primary IDE
- Designed and developed 64-bit "stop-the-world" RealOF memory management algorithm improving throughput in Java server applications over the best generational copying algorithms
- Ported **Jikes RVM** to 64-bit **PowerPC AIX** and Linux providing the first open-source virtual machine with rich research functionality for these platforms
- Improved and extended **Jikes RVM** to run **Eclipse** delivering the first open-source virtual machine to support most of the IDE's features
- Designed and developed parts of the **SSR Register System** telecommunication software, used in a number of regional centers of Ukraine

Recent Experience

07/2006 – 12/2006

Consultant

Intel Ukraine,
Kyiv, Ukraine

- Evaluated hardware and software options for Intel Internet Gateway Appliance for Ukrainian telecommunications market, competing with Cisco ASA 5500 Series, Zyxel ZyWALL and Symantec Gateway Security 300
- Provided marketing services and software consulting in the areas of operating systems, virtualization, antivirus, firewall, management and VoIP software for **Intel Channel Platform Solutions Group**

09/2004 – 06/2006

Chief Technical Officer

Multiplex Systems LLC,
Mission, TX / Khmelnytsky, Ukraine

- Negotiated with customers, set the vision and oversaw the development of a number of projects
- Driven the adoption of a number of Java frameworks, tools and solutions, including **Eclipse**, **MyEclipse**, **Struts**, **Tapestry**, **Hibernate**, **JSF**, **Seam** and **EJB 3.0** among others
- Founded Multiplex Systems LLC, a company specializing in customized Java EE-based solutions

03/2004 – 08/2004

Research Scientist

University of New Mexico,
Albuquerque, NM

- Ported parts of the optimizing compiler of **Jikes RVM** to the 64-bit **PowerPC** architecture
- Evaluated performance and tuned a 64-bit **GCTk** version of the Older-First collector
- Extended 64-bit **PowerPC/AIX** ports of **Jikes RVM** 2.0.3 and the latest CVS version to run **PowerPC/Linux** on **Apple G5** platform: fixed compiler and linker errors, implemented parts of JNI, identified bugs in ppc64 Linux/kernel 2.6.x

09/2002 – 12/2003

Research Assistant

University of New Mexico,
Albuquerque, NM

- Implemented and debugged 64-bit **PowerPC** port changes in the latest CVS version of **Jikes RVM**
- Implemented a 64-bit **GCTk** version of the Older-First collector and allocator with address-order write barriers in **Jikes RVM 2.0.3**
- Debugged and added functionality to the 64-bit **PowerPC** port of **Jikes RVM 2.0.3**

06/2002 – 08/2002

Software Development Intern

IBM Corporation,
Cambridge, MA

- Improved **Jikes RVM** and support libraries to run **Eclipse**: implemented missing functionality, fixed bugs and solved performance issues in different parts of the system including JNI, reflection, serialization, encryption and networking
- Identified and fixed bugs and performance bottlenecks in **GNU Classpath**

Selected Publications

- **Comparison of Garbage Collectors Operating in a Large Address Space**
Sergiy Kyrylkov and Darko Stefanovic
Technical Report TR-CS-2005-11, Department of Computer Science, University of New Mexico, April 2005
- **64-bit Computing and JVM performance**
Sergiy Kyrylkov
Dr. Dobb's Journal, March 2005 issue
- **Design and Implementation of a 64-bit PowerPC Port of Jikes RVM 2.0.3**
Sergiy Kyrylkov, Darko Stefanovic, and Eliot Moss
2nd Workshop on Managed Runtime Environments, Palo Alto, CA, March 2004

Education

12/2003	Master's degree in Computer Science (thesis)	University of New Mexico
06/2000	Specialist's degree in Electronic Engineering (diploma with honors)	Khmelnysky National University
06/1999	Bachelor's degree in Electronic Engineering (diploma with honors)	Khmelnysky National University

Honors and Awards

- IBM Extreme Blue Cambridge Certificate of Excellence for outstanding performance and lasting contribution to Eclipse on Jikes RVM project, 2002
- Specialist's diploma with honors, 2000
- Bachelor's diploma with honors, 1999
- First place award in the university software developer contest, 1998
- Undergraduate fellowship, 1996-2000