

Sergey Mikhanov

sergey@mikhanov.com
+43 (664) 576-2319

Gatterederstrasse 10
1230, Vienna, Austria

objective

To join ambitious team of world-class professionals (or to build it)

work

06/2006-present

Software Architect, Kapsch CarrierCom AG (<http://kapschcarrier.com>), Vienna

Designed and developed Java framework for telecom applications, a suite of services based on it, and a web front-end for service management. Key framework features:

- Exposes plain Java components for building the telecom service logic
- Incorporates high-performance asynchronous database access layer on top of JDBC
- Demonstrates very low call processing latency and high throughput
- Tightly integrated with the J2EE-based backend and into company-wide build process
- Runs on top of JAIN SLEE application server and hides platform internals from the service developer
- Uses advanced memory management techniques to avoid performance loss due to GC

Used technologies and software: Java, JAIN SLEE (jNetX OCFS), J2EE EJB (JBoss), Spring, JSP/Servlets/Struts/Ext JS, JDO/JPOX/Data Nucleus, XML/XSL technologies, SIP Servlets, SIP/SDP/VoiceXML

01/2005-04/2006

Software Engineer, jNetX, Inc (<http://jnetx.com>), Moscow

Designed and developed core Java network components of the telecom application server
Components features:

- Interact with the network using TCP and UDP sockets in multithreaded asynchronous environment
- Use custom storage engine based on Java NIO's buffers and B-trees for persistence
- Harmonize complex third party API with the network protocol finite state machines

Used technologies and software: Java, JAIN SLEE (jNetX OCFS), SIP Servlets, SIP/SDP/VoiceXML, IETF/3GPP/ETSI standards and APIs

02/2003-12/2004

Senior Software Engineer, E-Style Software (<http://estylesoft.com>), Moscow

Designed and developed early versions of *E-Style Mortgage* (now *eSTYLE Prequal Engine*)
Main duties during that time:

- Creating and optimizing the database schema
- Prototyping the UI suitable for uniform representation of heterogeneous data
- Web development using ASP.NET

Used technologies and software: C#/.NET, ASP.NET, XML/XSL technologies, MS SQL Server 2000, MS Visual Studio

08/2001-02/2003

Worked at Biblion (e-commerce company), and at CBOSS (OSS/BSS solutions provider) as a software engineer in the field of Enterprise Java (J2EE)

side projects

Swoolt, a suite of iPhone applications (<http://swoolt.com>)

Each application took around a month of weekends and evenings to deliver using Objective-C and standard iPhone Cocoa APIs. One of the applications includes the web part written in Python. The main incentive behind the project was the interest to test social and navigational aspects of the new mobile platform

education

09/1998-03/2004

Moscow Aviation Institute (State Technical University), B.Sc. in Computer Science

Department of Computer Science and Numerical Mathematics, Faculty of Applied Mathematics and Physics

Diploma project: "LIMA: Heterogeneous programming language with database and knowledgebase integration for Microsoft .NET"

awards

03/2005

2nd place in Microsoft Imagine Cup 2005 software project contest (regional competition) and participation in East-European Semifinals of the competition in Thessaloniki, Greece

Project: "Maorie: Multi-Agent Ontology Relevance Interconnection Engine"

skills

Programming languages and technologies

Java (JAIN SLEE, J2EE, Spring, EJB, JSP/Servlets, JDBC, JDO), ORM frameworks (JPOX/Data Nucleus, Hibernate, NHibernate), Web frameworks (Wicket, Struts, Cocoon), C# (.NET platform 3.0, ASP.NET Web Services, ADO.NET), XML/XSL (DOM/SAX models), SQL, AJAX (HTML/CSS/JavaScript, jQuery, DWR, GWT & Ext JS frameworks), workflow tools (Maven, JUnit, Ant, Ivy, Quickcheck, NUnit)

Software engineering

Software development methodologies (agile methods, XP, Scrum, TDD), software architecture, design patterns, UML

referees

Dipl.-Ing. Hermann Schwarzinger, Head of JAIN SLEE Product Unit

Kapsch CarrierCom AG

hermann.schwarzinger@kapsch.net

+43 (664) 628-3727

Prof. Valentin Zaytsev, Deputy Chief of the Computer Science Department

Moscow Aviation Institute (State Technical University)

umc8@mai.ru

+7 (495) 158-4090

Dr. Alex Nevidomsky, Software Architect

IBM Dictionary and Linguistic Tools Group

alex_nevidomsky@ie.ibm.com

+353 (86) 347-8960

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