

Vladimir Krupin

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Objective:

Senior Software Engineering position with an innovative company

Summary of Qualifications:

- 10+ years of hands-on software development
- 10+ years of database design and development (MS SQL, PostgreSQL, MySQL, Oracle, IBM DB2, Derby)
- 10+ years of hands-on work in heterogeneous environments (Linux, Windows, and to a lesser extend a number of Unixes)
- Fluent in a variety of languages (Java, PHP, C/C++).
- Clear understanding of Object Oriented Design and Architecture.
- Experienced in a number of aspects of J2EE development and related technologies. Containers: Tomcat, Weblogic, Websphere, Jboss. Technologies: Spring, Hibernate, JDBC, JTA, JNDI.
- Experienced in Webservices and related technologies: XML, SOAP, Axis, Castor, Xfire.
- Working knowledge of web presentation technologies - DHTML, javascript, CSS.
- Good understanding of server and network infrastructure design, with focus on scalability and high availability.
- Experienced in all aspects and stages of software development process: gathering requirements, design, development, testing, maintenance and support.
- Familiar with the unique challenges posed by the integration of proprietary and open source technologies. Contributor to a number of open source projects (PHP, cURL, PostgreSQL, Scite, PHP-PEAR, Qmail-toaster).

Work Experience:

- **2005-2008** *Schemalogic, Inc. (Kirkland, WA)*
Senior Software Engineer, promoted to Lead Engineer.
 - Developed algorithms to efficiently store, traverse and analyze large polyhierarchical structures
 - Focused on identifying and eliminating of performance bottlenecks, with particular attention on reducing “wire time”, and achieving the right balance between the application server load, database server load and complexity/maintainability of the code.
 - Worked to ensure the certification of the product on a large matrix of configurations: multiple databases (Oracle, MS SQL, DB2), multiple application servers (Tomcat, Weblogic, Websphere), multiple OS (Windows, Linux, AIX).
 - Lead the server engineering team, participating in all stages of development.

- **01-08/2005** *Rodeolab, Inc. (Bellevue, WA)*
Senior Software Engineer.
 - Developed a fault-tolerant scalable backend using J2EE (JBoss), JNDI, EJB, cJDBC to eliminate single point of failure and potential bottlenecks. Used Hibernate and Spring framework to speed up and simplify development.
 - Developed a rendering engine utilizing SVG, flex, ecma script.

- **2004-2005** *Lockdown Networks, Inc. (Seattle, WA • 206-285-8080)*
Senior Software Engineer. Lockdown Networks develops software for vulnerability management and security policy enforcement. I worked on design and implementation of a new major version (version 3) of the two flagship products - Lockdown Auditor and Lockdown Datasafe.
 - Designed and implemented a new development framework based on PHP and MySQL
 - Redesigned the database schemas to incorporate existing features into the new framework.
 - Developed some custom network code in C/C++.
 - Developed customer data migration procedures that were designed to work with multiple existing data formats and simplify future upgrades and migration.

- **1999 - 2004** *Echospace, Inc. (Lynnwood, WA • 425-697-4991)*
Software Engineer. Echospace was the pioneer in developing dynamic web applications that eliminated page refreshes. The technology offered by Echospace was far ahead of it's time; it was essentially web 2.0 years before web 2.0 actually emerged.
 - Developed back-end software for most of the Echospace's products.
 - Researched and selected technologies utilized by Echospace.
 - Designed, built and maintained the company's server infrastructure.
 - redundant routers and firewalls (Netfilter-based custom solution).
 - load-balanced web servers (Apache, Tomcat, others) with failover capabilities (LVS, KTCPVS, heartbeat).
 - databases (PostgreSQL, MySQL, MS SQL).
 - DNS (BIND).
 - E-mail servers (custom modified Qmail).
 - Worked closely with the PHP community and contributing the code needed by the Echospace technology back to the PHP project.

- **1998 - 1999** *University of Washington (UW, Bothell)*
Teaching Assistant.
 - Primary responsibilities were teaching advanced programming concepts and assisting students who needed extra help.
 - Other duties included grading tests and homework assignments for "Mathematical Principles of Computing" and "Advanced Programming Methodologies" classes.

- **1997 - 1998** *KLGroup (www.klg.com, now a part of quest.com)*
Java Developer. Developed software for rendering of 3D surfaces. Highlights:
 - Implemented a parser of mathematical expressions defining surfaces in a Cartesian system.
 - Implemented a 3D engine to present the renderings of said expressions, with zoom, rotation, variable aspect ratio, lighting, good handling of asymptotes.

Education:

- 1997 - 1999 University of Washington. BS in Computing and Software Systems.

Final project focused on a framework for managing lightweight UI components, with the final result being essentially a subset of swing functionality (swing wasn't available at the time, so this was a novel idea).

References are available upon request.