

Vlad Dyuzhev
2072669 Ontario Inc
Toronto, ON, Canada
416-878-5693

Vladimir.Dyuzhev@gmail.com
<http://vladimir-dyuzhev.net>

Java/J2EE Consultant

15 years of experience in enterprise software

SCEA Sun Certified Enterprise Architect
SCBCD Sun Certified Business Component Developer
SCJD Sun Certified Java Developer

SUMMARY

A highly-skilled, “smart and gets things done”-type hands-on software engineer with expert knowledge of Java/J2EE, SQL, WS and web applications, Unix, XML and related technologies. Able to work on every application layer. Enterprise and web security-proficient. Goes an extra mile.

LATEST SUCCESSFUL PROJECTS

Industry	Client	Project	Description
Energy	Direct Energy	NOMAD SSO EBT GDAR TMS KPI RPT BUS	Settlements Single Sign-On Infrastructure Electricity Business Transactions Gas Distribution Transactions Transaction Management Key Performance Indicators Reporting ESB planning
Banking	CIBC	CBB	Business Banking
Telecom	Bell Canada	IPWAN	Order Management

DIRECT ENERGY 2007/10-2009/07 (consultant)

Project: NGSS/NOMAD (Settlements)

Performed code and security review of the vendor-provided code. Found and implemented a solution for two major security issues (XSS and SQL Injection).

Developed Oracle FGA-based security module to comply with strict Alberta regulatory rules.

Implemented UI, middle-tier and Oracle PL/SQL code for numerous screens.

Project: KPI (Key Performance Indicators)

Implemented UI (GWT) and middle-tier logic for supporting user-configurable KPIs.

Developed report engine that delivers complete Excel Workbooks with complex embedded logic.

Project: SSO (Single Sign-On)

Designed and implemented a load-balanced enterprise-wide language-independent SSO server, similar in functionality to SiteMinder with public API (REST WS) compatible with OpenSSO.

Seamlessly supported both enterprise users (via AD/LDAP) and external users (via specialized database). Provided administration UI for simple setup of authentication and authorization rules.

Project: TMS (Transaction Management)

Due to hardware upgrade, ported a legacy C++ (STL and Boost) application from Sun Solaris/Sparc to HP HP-UX/Itanium. Identified and fixed found bugs. Optimized code for multi-threaded access.

Ported an SQL library not supported by vendor on HP-UX platform.

Project: EBT (Electricity Business Transactions)

Consolidated a group of related applications, providing an ability to run on the same J2EE container without conflicts, thus requiring twice less hardware.

Reviewed the existing framework, introduced fail-safe and recovery measures.

Fixed a number of memory and CPU hog issues. Implemented parallel processing which increased throughput four-fold.

Advised on and implemented a path of migration to Weblogic.

Migrated about 20 standalone Java applications to Java 6.

Project: GDAR (Gas Distribution)

Streamlined Tibco Bus connectivity, also making it fail-safe.

Replaced foundation code with the standard internal library which reduced maintenance costs twice.

Project: RPT (Reporting Server)

Implemented a reporting framework which uses XML and XSLT to generate complete Excel workbooks with custom formatting and logic of any complexity.

Created the administration UI.

Created the end-user UI to re-run reports based on user-provided data.

Project: ESB planning (Enterprise Service Bus evaluation)

Participated in evaluation and comparison of potential ESB implementation as a platform for future projects. Developed pilot implementations. Consulted on ESB architecture.

CIBC 2005-2007 (technical team lead, solution architect)

Project: CBB Business Banking

The project was a re-platforming of a legacy CORBA-based application (online business banking) onto enterprise-standard J2EE. The application is mission-critical and connected to the multiple back-end systems; though, existing vendor application is showing its age, and it cannot be easily enhanced to keep up with the business demands. Rolling migration plan (four phases in a few years) imposed strict backward compatibility requirements. Lack of vendor documentation required large amount of reverse engineering work.

Analyzed and reverse-engineered the existing application to propose a draft design which would allow us to migrate the services gradually, one by one. Designed and developed the core application framework. Designed and implemented required changes on legacy side and in database schema.

The working prototype convinced management that the whole project is in fact feasible.

Introduced the usage of ORM (Hibernate), code generators and usage of reflection to simplify and speedup the development, reducing the amount of code a developer has to write.

Established a 100% test coverage rule and implemented a right-after-change integration build.

Designed, implemented and documented selected complex functional blocks, such as a pessimistic locking model and company profile life cycle. Analyzed inter-system communication use cases and designed concurrency handling rules and practices. Worked with business analysts to clarify and improve the requirements.

Created development and design guidelines.

BELL CANADA 2004-2005 (contractor)

Project: IPWAN

Mastered Savvion Business Process Manager (J2EE-based framework) in a very short time. Participated in business process model development, optimization and bug-fixing. Created Siebel emulator – a standalone Java application – for Vitria/Siebel/BPM integration testing. Re-designed, optimized and tested Vitria Java connector and related BPM adapters (both EJB-hosted and servlet-hosted). Implemented a Siebel web-service (Apache Axis-based) connector. Developed database schema structure (Oracle) and mapped it to Java classes through ORM. Done large amount of change requests on all levels – from database (JDBC/Hibernate) to JSP/JavaScript.

Trained junior developers to catch-up with BPM and modern development methodologies (TDD). Mentored team of co-ops, who successfully implemented application-specific HttpUnit test framework.

SKEVA TECHNOLOGIES 2004 (contractor)

Project: UPCareOE/RefLab healthcare

Performed EJB and JSP new code development and maintenance. Refactored project structure to isolate project parts. Tracked JDBC/SQL performance issues (improved some searches ten times). Planned and deployed unattended night build servers for all of the company's products, providing the management with a fast access to current product demo.

Project: BFI Finance

Performed development of a new (Servlets and Javascript) functionality and bug-fixing. Directly interacted with customer to clarify and improve requirements. Helped to solve customer technical problems. Analyzed and planned migration path from UNIBASIC/SCO legacy application to J2EE.

DATAART 2003 (contractor)

Projects: CRM, City Portal

Refactored legacy J2EE project to separate business logic and presentation code. Wrote JDBC code to map application data model into Oracle database. Ported PDF compiler (C++) from Linux to Sun Solaris. Introduced code quality management and regression testing. Performed group trainings on Test-Driven Development.

ACTIMIND 2002-2003 (sr. engineer)

Project: PanMedix

Started as a regular developer, wrote critical parts of application tier (EJB) code (including credentials manipulation, access rights layer, external applications synchronization). Soon have been promoted into Sr. Engineer position with system design supervision role. Conducted design sessions. Trained the personnel (pair-programming and presentations). Managed code quality. Introduced 100%-coverage unit testing. In 6 months, achieved 30% reduction in cost of change and 50% reduction in bug-fixing time.

OSW 2000-2002 (programmer)

Project: Prospero data mining

Ported Win32 CORBA C++ server to HP-UX and Linux. Designed and developed a CORBA-based authentication server that allowed integrating the application into external security domains, and thus increased potential market. Created automated CORBA test tool to run script-based regression tests with no human interaction. Had been involved into creation of clustered version of the product, which was later used to run a 500-node grid in Hewlet-Packard's Houston lab.

Participated in creation of portability layer (synchronization primitives and threads) which simplified cross-platform development

ARCADIA 1999-2000 (programmer)

Project: F-Secure plugins for Lotus Domino and MS Exchange

Developed automated test applications for Domino add-ons. The tests reduced regression test time from 3 days to 1 hour while enhanced quality. Later extended the framework to test other company products, such as MS Exchange plug-in.

Project: OpenLDAP plugging

Designed and implemented custom in-memory OpenLDAP backend to serve distributed locks as fast as possible. Peak network performance increased ten times, while system complexity reduced due to removing unnecessary RDBMS.

RCCS 1996-1999 (programmer)

Project: Intranet application suite

Planned, implemented and deployed distributed intranet database (over 30M records those days, growing a few millions annually). Designed and implemented database schema. Created a Perl/CGI web applications to enter and process data.

Created scripts to generate FrameMaker files to publish the information with no human interaction (5000+ pages a month).

TECHNICAL SKILLS: (FOR SEO)

Java/J2EE: SpringFramework, EJB, JUnit, Ant, JavaORB, Weblogic, Websphere, Sun ONE, JBoss, OC4J, JDBC, EJB-QL, JPA, JXB, JMS, MDB, JNDI, Hibernate, iBatis, Servlets, JSP, Custom Tags, Tomcat, Struts, WebServices, SOAP, XML-RPC, SOA, Eclipse, GWT, Ajax **SQL:** Oracle, DB2, Interbase, PostgreSQL, MySQL **CORBA:** Orbacus, VisiBroker, TAO, JavaORB, GIOP/IIOP **C/C++:** GCC, aCC, Intel C++, Borland C++, Microsoft VC, Watcom, STL **Unix:** Solaris, HP-UX, Linux, BSD, AIX **Integration:** Vitria, Tibco, MQSeries **Toolset:** UML, Design Patterns, unit tests **.NET:** C# **ESB:** Weblogic AquaLogic, Apache ServiceMix, Tibco Bus **SSO:** OpenSSO, SiteMinder **Security:** ActiveDirectory, JAAS, XSS, SQL Injection