



VLAD Z.

Software developer

Ukraine

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Summary of Qualifications

I have over 15 years of experience in IT industry and was involved into many software projects of various sizes. Good team player, I believe that good spirit is the key of success of each team. Self-improved, every time better my knowledge about used technologies and frameworks, when those become with new release version. Most of projects were around web-based solutions. I have experience in full application design from scratch, working on requirements analysis and specifications, analysis and resolving, coding, testing, performance and code improvement, creating multi-threading systems. Also I have strong experience of code re-factoring, porting software to another platform. I have extensive understanding of the UML, OOP, OOD and DDD. Proven experience in relational databases, business intelligence and semantic technologies. Have excellent skills to works with Spring Framework, especially Spring Web MVC, Spring Webflow, Spring Data, Spring Security, Spring Flex and Spring BlazeDS Integration. Have good knowledge in AOP and OSGI. I have excellent understanding of the Dojo/ExtJs/jQuery/Flex3/Flex4. I'm concentrated on creating powerful solutions to bring customer's ideas on new level and feel excellent and confidently to work with edge technologies, which open new perspectives of web today. During several involvements I had collaborative works with developer's team onsite (from 2 weeks to 6 month).

Most of my technological expertise lies in the area of Java, RDBMS and Rich UI frameworks (Flex and modern JavaScript Frameworks). My responsibilities on recent projects are the following: system design and architecture - 30%, coding - 40%, testing - 15%, documentation - 15%.

Technical skills

Programming languages/Technologies

- Java SE/EE (ver. 1.3, 1.4, 5, 6, 7)
- JDBC, JNDI, RMI, Swing, JavaFx 2, JPA, JTA, SCA, Servlets, Applets, JSP, EL
- RDF, OWL
- AOP, ORM, ASM
- GWT/Ext GWT;
- UML1-2;
- XML & XSLT
- XHTML, HTML/HTML5, CSS;
- PHP;
- Flex/AIR, Flex Remoting;
- Video Streaming: RTMP, HTTP Streaming, IPTV (MPEG-TS);
- JavaScript, HTML, CSS
- js, Rhino, vert.x

RDBMS

- Microsoft SQL Server 2005/2008
- Oracle 9/10/11
- MySQL 4/5.5
- PostgreSQL

Frameworks

- Spring Framework Core, Web MVC Framework, Security Framework, Spring Flex Integration, Spring Data, Spring Webflow; All versions based on Spring Core in range 2.5.6 – latest stable release
- JavaServer Faces
- Trinidad, ICE Faces
- Freemaker
- Sitemesh
- OSGI (Equinox and Compendium)
- Gemini
- Rhino
- jPath
- JUnit, jMock, PowerMock, Mockito
- XFire Web Services, RESTEasy
- JasperReports
- OWL API, Jena
- Velocity
- Axon Framework
- Mallet
- Trove
- OSM (OpenStreetMap) API
- Hibernate OGM
- OGRM
- TopLink, EclipseLink, Hibernate. Can support those up to latest version
- All versions including 4.6, Air 1,5-3.1, Cairngorm(2.0-3.0),
- Parsley and SpiceLib
- Potomac OSGI Framework
- PureMVC
- Mate
- Pasta
- FlexMDI, OpenZet Framework, FlexLib, ObjectHandles, AlivePDF, As3xsl, Google Map API for Flex/Flash, Fzip, OSMF, charting
- ZendFramework, Prado, Phar, PEAR, MaxMind GeoLocation, CommerceML
- ExtJS/Dojo/Prototype/jQuery

Operating Systems

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- Windows 2000/XP/2003/Vista/2008/Win7/Win8
- Ubuntu 8.10/12.04;
- Mac OS X 10.4.6-1.9;

Development tools

- Apache Tomcat/Jetty
- Jboss3.2/4.2
- Websphere

Experience

CRM Application

Project	The start-up. This is a web based software package that manages customer relationships. Software packages that is easy to use and that allows centralize and integrate customer business into web. The main goal of given CRM is to provide an easy-to-use, easy-to-customize CRM application that can be adapted to any business use case. The system provides a high degree of flexibility, covering a wide variety of use cases out of the box.
Description:	
Customer:	European Customer
Involvement Duration:	3 months
Project Role:	Technical Leader

- Responsibilities:**
- create DAL (Data Access Layer) and integrate latter with legacy DB Layer.
 - create Service Layer to provide data to BlazeDS entry points.
 - create integration layer between Hibernate 4 and BlazeDS, because, the latter is not compatible with latest Hibernate builds
 - create dynamic filters and integrate Lucene to improve text-based search
 - Implement "k"-series clustering algorithms to create new categories

Project Team Size: 14 team members

Tools & Technologies: Backend: Java 1.7, vert.x, PostgreSQL 9.2, SockJS server, Axon Framework, Spring Framework, Mallet, Hibernate, JUnit, Mockito, Powermock.

Frontend: Apache Flex 4.9, Adobe Air 3.7/3.8

Tools: JetBrains IntelliJ IDE, Flash Developer, Git.

E-procurement Software Company

Project Description: The continued involvement into previous assignment. The SAAS platform of this company manages indirect purchases and expenses in real-time. Built on cloud architecture, it provides executive dashboards, alerts, expense management and real-time benchmarking into a single user interface. Given software helps companies to better monitor costs with less implementation time and employee training. During given assignment, in my responsibility was improvement of performance on all sockets communications and fix issues with rendering pages if sourcing event contains a lot of items.

Customer: US Customer

Involvement Duration: 3 months

Project Role: Senior Software Engineer

- Responsibilities:**
- create asynchronous rendering processes that allows receive and render data by splitting latter on small chunks, as result that impact on responsibility of web pages, especially on the old browsers.
 - improve event system of jQuery framework to create the fastest event than default.
 - create smart cache mechanism of rendered data to improve re-painting and re-flow of web-pages
 - create data-binding mechanism to bind data on existing DOM nodes, that eliminates a lot of create/destroy view functionalities and makes web-pages more responsive during applying new data sets

Project Team Size: 9 members

Tools & Technologies: Backend: RoR, Apache Server, Faye Server, MySQL 5.2. Frontend: JQuery 1.8, Backbone, Faye Client library. Git. Sublime Text, JetBrains WebStorm, MySQL Workbench, Fiddler Web Debugger.

The Travel Recommendation Engine

Project Description:	This engine creates travel recommendations using AI and display latters by clustering them on several buckets. These buckets are represents the interests of traveller in some particular areas, such as: flights, hotels and rental cars. Each bucket will display five most suitable search items as pairs on the top and the rest of items bellow as additional search list. During given assignment, I was involved to create business rules for decision tree that weight all search items accordingly to user preferences. The scores of search items used later into engine to sort search list and create mentioned above buckets.
Customer:	US customer
Involvement Duration:	4 months
Project Role:	Technical Leader
Responsibilities:	<ul style="list-style-type: none"> • create algorithms for business rules that score each search item • create and configure decision tree based on Jboss Drools • create DAL (Data Access Layer) to store configurations for AI engine and raw rules • create Serialization and Service Layer to communicate with external RoR application • create sorting mechanism to perform sort actions on received search items.
Project Team Size:	12 members
Tools & Technologies:	Backend: Java 1.7, RoR, Jboss TorqueBox, MySql 5.5, Drools 5, Mahout, Amazon EC3, Hibernate, CDI, Arquillian Framework. Frontend: JQuery 1.8, Backbone. Tools: JetBrains IntelliJ IDE, Git.

The Prototyping of Collaboration and Mind Mapping Software

Project Description:	The company need to refactor their collaboration software, which enables participants in the same room or around the world to brainstorm, share best thinking, vote on ideas, and see session results in real-time. During given assignment, the prototype was created to replace old-school backend on new asynchronous one with ability to work with ORM frameworks, such as: Hibernate or EclipseLink. This prototype included four major parts: the thread-save DAL (Data Access Layer), the asynchronous SL (Service Layer), web-client Local Storage and thin layer to synchronize back-end and front-end storage.
Customer:	US Customer
Involvement Duration:	2 months
Project Role:	Senior Software Engineer

- Responsibilities:**
- create prototype of asynchronous thread-safe DAL based on Axon Framework
 - re-create Domain Layer accordingly to DB schema
 - create prototype of asynchronous Service Layer
 - create prototype of synchronization layer to compare diffs between two storages
 - create prototype of web-app, which allows to work into online or offline modes with unobtrusive synchronization while users collaborate
 - create prototype of client DAL and Service Layer to work with latters.

Project Team Size: 2 members

Tools & Technologies: Backend: Java 1.7, Apache Tomcat Server, PostgreSQL 9.2, Netty, SockJS server, java-diff library, Axon Framework, Spring Framework, Hibernate, JUnit, Mockito, Powermock.

Frontend: JQuery 1.8, Backbone, SockJS client, JayData.

Tools: JetBrains WebStorm and IntelliJ IDE, Fiddler Web Debugger, Git.

E-procurement Software Company

Project Description: The SAAS platform of this company manages indirect purchases and expenses in real-time. Built on cloud architecture, it provides executive dashboards, alerts, expense management and real-time benchmarking into a single user interface. Given software helps companies to better monitor costs with less implementation time and employee training.

During given assignment were implemented several impressive charts to display information about bidding process for suppliers and buyers. All charts are backend-driven and updated by push notifications from Faye server.

Customer: US Customer

Involvement Duration: 3 months

Project Role: Senior Software Engineer

- Responsibilities:**
- create real-time charts to display actual bids during bidding
 - create historical charts to display history of bidding process
 - create comparison charts to compare suppliers bids to best price of current set of lots and items
 - create real-time ranking of suppliers, accordingly to their bids
 - display on charts changes of best price, accordingly to selected set of lots and items
 - create integration layer to visualize information received from push notifications

Project Team Size: 10 members

Tools & Technologies: Backend: RoR, Apache Server, Faye Server, MySQL 5.2. Frontend: JQuery 1.8, Backbone, Faye Client library. Git. Sublime Text, JetBrains WebStorm, MySQL Workbench, Fiddler Web Debugger.

Printing Company

Project Description:	This company provides sign shops, commercial printers and designers a broad range of pressure-sensitive materials and ideas to enable creation of impactful informative, brand and decorative graphics. Was involved to create new functionality to authorize and print new kinds of products provided by external system that is partner of this company. This is Flex based RIA and given application allows create, edit and print graphics online.
Customer:	US Customer
Involvement Duration:	2 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> ● Integrate API of partner company ● create wizards to allows end user select options and customize existing ones ● create integration between flex player application and Adobe Acrobat Reader plug-in to create synchronous printing sequences and prevent user to modify graphic content. ● create communication layer between backend and frontend ● integrate payment system
Project Team Size:	10 members
Tools & Technologies:	Backend: Java 1.6, EJB, SOAP, BlazeDS. JBoss 1.7. Frontend: Flex 4.5, pure JavaScript, Adobe PDF JavaScript API. SVN. Flash Builder, Spring Tools Suite.

Procurement Company

Project Description:	Given system provide technology which helps marketing service providers address their customers' requirements for convenience, visibility and control, and as a result, helps them close more business. It is a Software-as-a-Service (SaaS) that service providers can deploy with their enterprise customers to enable them to conveniently start and follow marketing projects while maintaining visibility and control with detailed reports. Everyone in the supply chain – marketing, procurement, project managers, suppliers, and retail locations – is using the same system. This system provide full procurements functionality, such as: receive orders, RFQs direct from clients, submit RFEs and orders to suppliers, deliver quotes and specs to clients, invoicing and other. All activities are organized into projects. To managed last ones it provides powerful tools and enterprise integration solutions. During given assignment were created several global customizations of presentation layer, refactoring event system to transfer data between data tiers and integration with Oracle iProcurement and Oracle Supplier Network
Customer:	US Customer
Involvement Duration:	4 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> ● integration with Oracle iProcurement and Oracle Supplier Network ● customization of presentation layer accordingly to new requirements ● adopting data transfer tiers to new requirements.

Project Team Size: 4 members

Tools & Technologies: Backend: Java 1.6, CXML 1.27-2.21, RESTEasy, SOAP, EJB, OSN API. Oracle 10.2g, Resin and Oracle Weblogic. Frontend: Velocity and jQuery. Perforce. Eclipse Indigo.

Monitoring System

Project Description: Builds low-level frameworks for big monitoring system. These frameworks totally implemented on JavaScript. Main goals of these frameworks are improve development process of conversion Presentation and Service layers of given project, add ability to declarative definitions of complex flow behaviors and actions, managing data transferring processes. Those frameworks bring Inversion of Control, Dependency Injection paradigms to server-side and client-side JavaScript. Also were implemented action- and task-based framework to perform asynchronous interactions between server and client tiers of application. Implemented unit testing framework allows describe user interactions by XML without additional coding and passing test data to those using CSV files. To emulate user interactions on browsed page used modified version of DOHRobot applet. Given frameworks works on different environments, such as: all modern browsers, Rhino, Nodejs, vert.x. They have very similar API to Spring Framework Core, Webflow, and Batch, but more flexible because allows create thin communication layer and reuse same configurations on frontend and backend. Also they have excellent integration with Spring Framework.

Customer: US Customer

Involvement Duration: 14 months

Project Role: Software Engineer

Responsibilities:

- research and analysis and system design
- implementing unit/functional testing tools based on D.O.H dojo unit testing framework that allows developer create unit, functional and performance test using only XML files
- creating application context framework (Inversion of Control and Dependency Injection) for client- and server-side JavaScript, which should has same public API and XML domain specific language as Spring Framework Core
- creating action framework to perform any task, schedule them and manage all action states, such as: starting, cancelling, skipping, resuming, completing and error state
- creating client-side flow framework, which should has similar XML domain specific language to Spring Webflow

Project Team Size: 9 members

Tools & Technologies: Java Applets. Spring Core 3.0.5, Spring Security Spring MVC, Spring Webflow, Dojo 1.7, Ant and later Maven 2.2, CruiseControl and later Jenkins CI. ClearCase and later SVN.

Students Management System

Project Description:	The system is the first data-driven early warning system for identifying students at risk of dropping out. By identifying and extracting the most relevant student data, it gives teachers, counselors, and administrators the information to make proactive and effective decisions so that students receive the attention they need, when they need it.
Customer:	US Customer
Involvement Duration:	8 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> • system design with providing libraries which makes communication between server-side (java) and client-side (ExtJS) easier without middle layer • creating domain model for persistence layer • creating query builder for more efficient using abilities of ORM, and JPA querying • creating AOP interceptors for global handling of exceptions and log ones
Project Team Size:	30 members
Tools & Technologies:	Spring Core 3.0.5, Spring Security Spring MVC, Quarts, Hibernate Core 3.5, Hibernate Validator, Hibernate Search, JPA Static meta model, Compass, DirectJngine, AOP, JMS, ExtJS, Unit testing tools. Maven 2.2, Hudson CI. MySql 5.2

Virtual Marketing System

Project Description:	Virtual Marketing System provides the rules of application creation, integration and deployment in the Cloud. Virtual Marketing System is platform "as a service" which actually is BRMS (Business Rule Management System) This system delivers the key accelerator for IT projects in the Cloud. This system manages and assembles applications, business processes and services within a unique technology environment encompassing BPM and Cloud-oriented ESB. The main achievements are implementing flexible business process modeling engine that allows end user easily integrate own business into given system and use all benefits of cloud computing for own targets.
Customer:	European Customer
Involvement Duration:	21 months
Project Role:	Technical Lead, Software Engineer

Responsibilities:	<ul style="list-style-type: none"> • technical leading and mentoring • engineering management • research and analysis and system design • implementing functionality to resolve indexes on similar products and find all proposals into categories related to those products • create effective indexation framework based on Apache Solr • developing library for communication AJAX client-side with server-side similar to BlazeDS (Flex) • creating unique component template system based on Velocity for improving component based architecture of web-application • developing Air desktop admin application, developed visual GUI builder for creating flex and AJAX forms and content • implementing macros builder for creating high level user-defined business logic • unit testing • creating documentation for this project
Project Team Size:	6 members
Tools & Technologies:	Spring Core 3.0.0, Spring Security, Spring Integration, Spring MVC, OGRM, Hiberhate Core and Validator, Command Framework, Rhino, Velocity, AOP, Sitemesh, Adobe BlaseDS, ExtJS, Flex 3.5, ORYX, jBPM 4, Dozer, jPath. Maven 2.2, Hudson CI. Oracle 10g and Neo4j. Jena, OWL API. SVN
Movie Portal	
Project Description:	This is Flex based RIA to create employee training, collaboration, executive messaging, or a public facing video product catalog for enterprises. Also given application could be used as a video portal for browsing ad-supported video catalogs, or creating a PPV experience, for launching movies/shows, as a video gallery on a portion of their site or as a tool to support citizen journalism, publishing teaching and library materials. For individuals allowed organize video galleries, supports online user communities built around their movie interests. Viewers can create video rooms, chats, and invite their friends to watch arts. The main goal of this portal is easily publish high-quality video content with minimal setup, or empower a user community to upload and manage media independently.
Customer:	European Customer
Involvement Duration:	11 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> • developing video streaming • developing payment system • creating core analytics packages • unit testing • creating documentation for this project
Project Team Size:	14 members
Tools & Technologies:	Spring Core 2.5, Spring Security, Spring Integration, Spring MVC, Eclipselink 1.2, jPath, Adobe BlaseDS, PayPal java SDK, Ideal payment SDK Flex 4.0 SDK, Unit testing tools, Wowza media server.
Social Networks Analytics	

Project Description:	Analytics application is Rich UI and Java based solution for retrieving historical data about engagements, visits, and correlations of common interests of social communities to some features(polls, surveys etc.) which was improved in these networks, and common statistics about devices which was used by concrete users(especially mobile devices).
Customer:	US Customer
Involvement Duration:	6 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> ● refactoring persistence layer ● creating on OLAP services ● creating analytics math packages and creating DAO layer to retrieve and store data for those packages ● developing Flex part for displaying and visualization of OLAP data ● participated into implementing adopted layouts to represent the application on various OSs and browsers (mobile, desktop)
Project Team Size:	15 members
Tools & Technologies:	Spring Core 3.0.0, Spring Security Spring MVC, Quarts, Hibernate Core, Hibernate Validator, Hibernate Search , SOAP, JDBC, Oracle OLAP Server, Pure JavaScript, Flex 3.5 -4.0, Unit-testing tools. Ant, Cruise Control. MySql 5.0.

Parking Permit Management System

Project Description:	Permit is Java-based application, which allows users reserve parking place in most of big cities of customer country. Also this application has made statistic of street traffics, and frequency of using these services. This application has a payment system also. Most of it views were be the table based reports.
Customer:	European Customer
Involvement Duration:	10 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> ● refactoring views for this application to show information in more user friendly format ● developing new functionality of xml reporting ● unit testing
Project Team Size:	20 members
Tools & Technologies:	Spring Framework, Toplink, Trinidad, iDEAL payment sdk, PrototypeJS, Web services, XML Publisher, Unit-testing tools, OC4J server. Oracle10 database.

Global Delivery Tracking System

Project Description:	B2B Workflow System helps the company collaborate with business partners to track goods ordering and delivery around the world. The system is WEB based application, which allows remotely creating orders, scheduling its execution, and tracking cargo delivery.
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Customer:	European Customer
Involvement Duration:	8 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> • engineering management • research and analysis and system design • creating persistent and business layers
Project Team Size:	6 members
Tools & Technologies:	PHP 5.01, MDB2, Propel, Zend Framework, Apache 2.0, PostgreSQL, Smarty, MemCache, Prototype JS

Online Restaurant Ordering System

Project Description:	E-Commerce site was created to provide ability to sell foods from a multitude of restaurants. It allowed to look over menus of restaurants and to purchase food on-line. The site offers a search for the restaurant through location, cuisine and specialty foods. The administrative part of the site supports an ability to change menus and to monitor orders remotely.
Customer:	European Customer
Involvement Duration:	14 months
Project Role:	Software Engineer
Responsibilities:	<ul style="list-style-type: none"> • analyzing client's needs and developing software tools to assist dynamic site content creation, • planned and implemented administrative site security system for database access control • developing server-side business logic software modules • customizing client-side modules • implementing database and software utilities for site administration
Project Team Size:	4 members
Tools & Technologies:	PHP 5.01, Pear DB, XSLT, XML, PHP2PDF, Apache 2.0, MySQL, JavaScript, Dojo framework

Online Automotive Catalogue

Project Description:	This site allows a visitor to view/research used vehicles and automotive parts information. The site designed and developed as PHP web application for monitoring the inventory level at customer's stores. The solution provided a drill-down report of inventory at various levels, like company, division, department and store. The system also allows user to searching and storing info about vehicle or spare part by it characteristics, and organize catalogues for more comfortable using search engine. Added access to geo-location of a specific vehicle or a store.
Customer:	European Customer
Involvement Duration:	12 months
Project Role:	Software Engineer

- Responsibilities:**
- developing the application framework to interface the 3rd party application with customer's legacy systems
 - creating geo-location/geo-targeting module
 - unit testing

Project Team Size: 5 members

Tools & Technologies: Perl 5, PHP 4.3.6, Apache 1.3.2, MySQL 4, Maxmind geo-location API, sockets, Yahoo! Maps, Xtemplate, Pear DB, Pear Form. Pear Ole Spreadsheet, pure JavaScript.

E-commerce Site

Project Description: E-commerce site that helps users search furniture of famous European manufactures and create custom furniture designs.

Customer: European Customer

Involvement Duration: 4 months

Project Role: Software Engineer

- Responsibilities:**
- research and analysis and system design
 - developing server-side business logic software modules
 - customizing client-side modules

Project Team Size: 5 members

Tools & Technologies: PHP 4.3.6, Zend Framework, Apache 1.3.6, MySQL 4, Smarty, Prototype