

Dmitry Sadakov

Senior Software Engineer

Born August 26, 1985

MS in CS

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Summary of Qualifications

- 10+ years of combined expertise in several areas of software engineering including web development, enterprise, and mobile application development;
- 7+ years consulting in the financial sector;
- Trained & mentored distributed offshore teams as onsite team lead;
- Created & launched several mobile apps for iPhone for several clients;
- Clients include:
 - The Intercontinental Exchange, New York, USA
 - New York Stock Exchange (NYSE Euronext), New York, USA
 - Gemini Systems LLC, New York, USA
 - Gemini Systems RU, Saint Petersburg, Russia
 - Scoros LLC, Saint-Petersburg, Russia
 - Eluma Inc, Boston, USA
 - Ectaco, Saint-Petersburg, Russia

Education & Publications

Saint-Petersburg State Technical University, Russia, 2009 – 2011

Unfinished PhD in Computer Science; published works include

- Dmitry Sadakov, S.E Saragdishvili. "Ranking Methods for shared file resources for information retrieval systems based in distributed environments", SPbSTU Press, 2010;
- Dmitry Sadakov, S.E Saragdishvili. "Recommender system for massively decentralized file sharing networks", SPbSTU Press, 2010;
- Dmitry Sadakov. "Automation of classification in large collections of documents", SPbSTU Press 2009;
- Dmitry Sadakov. "Synchronization of information retrieval databases in local area network peer-to-peer networks sharing based on Microsoft Sync framework", Microsoft Technologies in SPbSTU Press, 2009;
- Dmitry Sadakov. "Formal verification techniques for multithreaded applications such as Microsoft Chess", Microsoft Technologies Press at SPbSTU, 2009;
- Dmitry Sadakov. "Information retrieval in shared resources in LANs", Microsoft Technologies at SPbSTU Press, 2009;
- Dmitry Sadakov, "Mesh-networking distributed traffic control with ZigBee", SPbSTU Press 2009;

Saint-Petersburg State Technical University, Russia, 2002 – 2008

- Master's Degree in Computer Science from the Faculty of Cybernetics;
- Master Thesis "Information retrieval system for massive peer-to-peer file sharing in local area networks", Dmitry Sadakov, 2007;

Knowledge & Skills

Languages	C# 1.1-5.0, PHP, Javascript, Java, SQL, Objective-C, VB.Net; XML, XSLT, HTML, CSS, VBA, ActionScript;
Frameworks & API	Microsoft ASP.Net, ASP.Net MVC, WPF, Silverlight, WCF, Ajax Library, Entity Framework, ADO.Net, Unit Test framework, Remoting; JQuery, Bootstrap, AngularJS; Apple iPhone UIKit, Google Android SDK, JQuery Mobile, PhoneGap; Telerik RadControls, Telerik Sitefinity, DotNetNuke; NUnit, moq, NHibernate.
Other	Atlassian Jira, Bamboo, GreenHopper; NMock; Twitter API, Songkick API, Flickr API, LightSpeed POS, nopCommerce
Development Environment	<i>IDE</i> : Microsoft Visual Studio 2005-2012, Apple XCode, IntelliJ Idea, IntelliJ PHPStorm, Oracle SQL Developer, Eclipse, NetBeans, Visual Studio, IBM Worklight, IBM RAD; <i>Web</i> : Microsoft IIS, Apache HTTP, Jetty, IBM WebSphere; <i>Testing Tools</i> : SmartBear SoapUI, Selenium, JMeter; <i>Analysis Tools</i> : JetBrains dotTrace, dotCover, Resharper, Reflector; <i>CI</i> : Atlassian Bamboo, CruiseControl.Net; <i>VCS</i> : Subversion, Git, ClearCase; <i>Project Management/bugtracker</i> : Atlassian Jira, Trac, Redmine, ClearQuest;
Methodologies	Agile, Test Driven Development, Extreme programming
OS	Windows NT/2000/XP/Vista/7/8, Ubuntu, Mac OS 10, Mac OS Server, iOS, Android, Windows Phone
Databases	MS SQL Server 2005/2008, Oracle SQL, Microsoft Access, MySQL, Lucene.Net, MemCache, Redis, RabbitMQ, MongoDB
Cloud	Google AppEngine, Microsoft Azure, Amazon EC2
UI/UX	Adobe Photoshop CS4, Adobe InDesign CS4, Adobe AfterEffects CS4. MS Expression Blend 3

Selected Project Experience

Client: Gemini Systems LLC, New York, USA

Project: Mobile Visionary

Timeframe: Oct 2010 - Present

Description: Understanding and externalizing Gemini Systems' deep knowledge of mobile technologies and experience in a way that adds our clients value to their business.

Responsibility: Driving the development effort of mobile innovation. Understanding and working with IBM Worklight; Comparing solutions to other platforms; building demo applications that show off the vision, tools and platforms to clients, sales teams, and internal team.

Environment: IBM Worklight, JQuery Mobile, PhoneGap, AppCloud, XHTML5, Javascript, Objective-C, XCode, NodeJS.

Timeframe: 09/2010-Present

Client: IntercontinentalExchange (The ICE), formally New York Stock Exchange

Project: eCommerce store for stock data products <http://nyxdata.com>

Description: Developer of the NYSE Technologies Market Data eCommerce portal (nyxdata.com). This is a four year ongoing effort of supporting a major web ecommerce sales portal and internal systems for reference and historical market data products.

Responsibilities:

- Securing the website from external malicious attack by hackers by analyzing internal source code and repairing found vulnerabilities by external companies. This role included fixing flaws in legacy VB6 code, enabling improved security layers and implementing additional authentication of the various application components.
- Upgrading and implementing changes to DotNetNuke open source CMS platform.
- Upgrading legacy code from old technologies such as Visual Basic 6 and classic asp to Microsoft ASP.Net 3.5 & C#, as well as updating the all aspects of the web stack from 32 bit code versions to 64 bit version systems. Verified all functionality of components of the 8 year old website, deployed a newer more secure environment, and automated the deployment process to new servers via continuous integration tools.
- Offshore team lead for 2-4 developers in Argentina and Russia, mentoring and onboarding.
- Supporting and implementing enhancements for offloading data management to the big data crunching warehouse.
- Supporting and enhancing reporting and billing tools. This includes changing queries for speed and accuracy and supporting report generation from big data.
- Implementing scheduled job to synchronize Secure Financial Transaction Infrastructure (SFTI) orders and progress to and from Sharepoint data sources.
- Supporting a large email subscription system to paying clients.
- Creating a license verification system for paying customers.
- Implementing a complete custom URL administrative functionality for the nyxdata.com portal.
- Fixing and investigating issues with billing for paying customers via credit card and paypal.
- Implementing log analysis, statistic collection and performance improvement.
- Supporting and maintaining operation of job servers and scheduling systems that implement backend operations for all billing processes, data input & output jobs, data maintenance and reporting.

Environment: Microsoft ASP.Net; DotNetNuke; C#, VB, Classic ASP, JavaScript, LINQ, Microsoft SQL Server; RadControls ASP.Net.

Timeframe: 09/2013-12/2013

Client: New York Stock Exchange (NYSE)

Project: Implementing changes to an corporate-wide internal authentication system for Single Sign-On functionality

- Maintaining an internal authentication system written in Scala and Java. This includes testing and implementing backwards compatible changes to a highly secure and scalable authentication platform used within the corporation. Rolling out and checking for compatibility in all internal systems including programs in PHP, .Net, Java, Python.

Environment: Scala, C#, Visual Studio.Net, IntelliJ Idea, PHP, Drupal, Fiddler, Soap UI

Timeframe: 09/2010-07/2012

Client: New York Stock Exchange (NYSE)

Project: unified billing eCommerce Platform

Description: The New York Stock Exchange (NYSE) needed a eCommerce Platform, built from the ground up to support the needs of 3-4 other internal commerce products inside the organization. It would be flexible enough for supporting all aspects of NYSE business,

internal and external. The foundation connected four different billing systems inside of NYSE, as well as provided all functionality to cover future cases of billing platform intercommunication.

Responsibility: As part of the core NYSE eCommerce Platform team, I had responsibilities of architecting and implementing the base CRUD API, from web service layer to DB layer, external web-services and internal architecture, implementing tests and external communication mechanisms, implementing scheduling system integration, as well as measuring and improving performance of queries;

- Integrating with existing SOA solution (API) for SSO;
- merging code from external vendors of 4+ teams;
- writing technical specifications for external vendor teams;
- resolving cross-SOA issues.
- Understanding and implementing scalable billing system workflows.
- Implementing monthly invoice import from Reporting and Account Management Systems (RAAMS) for all clients.
- Document management integration with Sharepoint API and external sources.

Environment: Microsoft .Net C# , IIS, Oracle DB, Drupal PHP, Rabbit MQ, Entity Framework, WinForms, SOAP UI, Bamboo, Redis, Sharepoint, WCF

Timeframe: 04/2011-05/2011

Client: New York Stock Exchange (NYSE)

Project: Client Connect

Description: The New York Stock Exchange (NYSE) needed a cross-CRM solution to bridge existing customer relationship management software into a NYSE Platform specific CRM for iPad and web versions internal to the company.

Responsibility: Architect and implement SOA solution (API). Implement Salesforce integration, SalesLogix Integration, SSO integration. Support of the iPad application, CRM integration.

Environment: Microsoft .Net C# 3.0, IIS, Salesforce, SalesLogix, iPad iOS XCode 3.0, XHTML/CSS, Javascript, jQuery.

Client: Swarovski

Project: Swarovski Optiks ecommerce website

Timeframe: 08/2010-09/2010

Description: Implementing a coupon affiliate marketing backend and frontend for Swarovski Optiks store keepers.

Responsibility: Architecture and implementation; project lead for development efforts; IT Consultant for client support and final delivery.

Environment: ASP.Net, C#, MS SQL, RadControls, JQuery.

Timeframe: 08/2010-09/2010

Client: 10,000 HDR Wallpapers app

Project: 10,000 HDR Wallpapers app

Description: A native iOS iPhone application to let users view the best High-Dynamic-Range photography from Flickr and other sources as downloadable wallpapers.

Responsibility: Complete implementation of the application for iPhone, complete implementation of the backend PHP REST API, architecture and support.

Environment: XCode 3.0, PHP MVC framework; Flickr API; Javascript; PhoneGap; MySQL.

Timeframe: 05/2010-08/2010

Client: Seeking Serenity LLC

Project: <http://seekingserenity.com>

Description: Online and offline commerce store for selling apparel and jewelry.

Responsibility: Administering of the wireless iPhone Point of Sale system from Verifone; administering LightSpeed POS for Mac; implementing a durable, fault-tolerant on-premise POS with Verizon hotspots and external internet; implementing redesign and customization of the online ecommerce store using LightSpeed WebStore API; online marketing and SEO.

Environment: PHP 4.0, LightSpeed POS, Verifone iPhone Sleeve; Mac OS X Server; Photoshop CS.

Timeframe: 04/2010-05/2010

Client: government administration of Amur region of Russia

Project: e-government citizen's services portal

Description: Russia's region of Amur administration official government portal is creating a citizen's services registry and informational portal.

Responsibility: Concept mockup, web design and implementation, IBM WebSphere Portal theming and skin for both the informational portal and citizens service registry.

Environment: IBM WebSphere Portal, XHTML/CSS, Javascript, jQuery, IBM RAD 7.5.

Timeframe: 03/2010-06/2010

Client: Our Money Magazine (Russian)

Project: www.nashidengi.ru

Description: Creating an online presence for the Magazine; engaging community, blogs, articles and workflow of approving new articles site.

Responsibility: Complete architecture, design and implementation of the solution; development lead for the effort of the team.

Environment: ASP.Net, C#, MS SQL, RadControls, Telerik Sitefinity, RadControls, jQuery.

Timeframe: 11/2009-03/2010

Client: FB-Consult

Project: VTB24 Bank converting to SalesLogix Web

Description: Russia's second largest retail bank VTB24 needed back office forms to be translated from Sage Saleslogix CRM to Sage SalesLogix Web.

Responsibility: Converted obsolete VisualBasic forms and scripts to current technology stack of ASP.Net and Silverlight 3 web-front and C# entities. Re-implemented DAL in C# and NHibernate with exposed webservices in WCF. Optimized performance.

Environment: MS Visual Studio 2010, Sage Saleslogix CRM, Silverlight 3, MS Expression Blend 3, WCF, NHibernate, ASP.Net, XHTML/CSS, Javascript (jQuery, MS AJAX Library), Telerik Silverlight Controls, Oracle DB, Visual SourceSafe.

Timeframe: 08/2009-10/2009

Project: Photo image editing website prototype

Description: A concept prototype of an online resource where clients can submit photos and image, choose enhancements to implement and pay for the high-resolution enhanced image. Graphical editors register and implement enhancements for a percent of clients credit.

Responsibility: Concept, implementation, web development and iterative improvements.

Environment: MS Visual Studio 2010, ASP.Net MVC 2, Entity Framework, C# 3.0, Adobe Photoshop CS4, XHTML, CSS, jQuery, MS SQL Server 2008.

Timeframe: 04/2009-07/2009

Project: Design for Gemini-Systems Russian Portal and Seminar Flyers, Booklet, Marketing Banner

Description: Revamped our corporate webportal www.gemini-systems.ru to reflect our projects and clients, created marketing materials for our IBM Moscow Conference with consistent branding style and feel.

Responsibility: Interface mockups and implementation. Ground up design for all flyers, banners, webdesign and printable materials.

Environment: Adobe InDesign CS4, Adobe Photoshop CS4, Adobe Illustrator CS4, XHTML, CSS.

Timeframe: 04/2008-03/2009

Client: administration of Voronezh (Russian region of Voronezh)

Project: Voronezh Official Administrative Web Portal

Description: "Russian region of Voronezh" needed an official administrative government portal for news, informational interface for the citizens of Voronezh region.

Responsibility: Developed web site design from bottom up with client, implemented interface elements, navigation and visual elements.

Environment: IBM Web Sphere, WCM, IBM RAD, XHTML/CSS, Javascript (Dojo, prototype, mootools), Adobe Photoshop, Dreamweaver.

Timeframe: 09/2007 – 04/2008

Project: NYSE.com, NyxData

Client: NYSE.com

Description: E-commerce website for selling and storing stock exchange data packages.

Responsibilities: Implemented features for backend office, and client interface. Created a modern, searchable and filtered interface for viewing market data packages.

Environment: MS SQL Server 2005, Transact SQL, Visual Studio 2005, C#, .Net 2.0, DotNetNuke, Telerik RadControls.

Timeframe: June 2006 - July 2007

Client: Scoros SPB

Project: Eluma Client

Description: Eluma is a brandable and extendable web 2.0 application and social network with a client for the desktop computer with synching functionality with Eluma online social network website.

Responsibilities: Software engineer (C# .Net Developer) developing the interface, program core, building the client and server sides of the social network Eluma. Implemented AJAX web interface in the public webfront. Communications and synchronization framework for client and server interoperations.

Environment: MS ASP.Net, Windows Forms .Net, .Net Framework, C#, Javascript, ADO.Net, SQL Server 2005, XSLT, HTML.

Opensource projects & startups (Sole-Authorship, owner-founder)

Timeframe: June 2012-2013

Project: APIStarter.com

Description: Concept of APIStarter.com: kickstarter for API.
Crowd-source funding for API libraries. Pay \$2 bucks for the library you need, get 50 backers, and we will find a dedicated developer to implement, test, and document the library in a short timeframe. This is the concept that I think IT will move forward to in the near future.

Project: Lan Crawler – <http://sourceforge.net/projects/lancrawler>

Description: LanCrawler.Net is a crawler and indexer of public network files shared via SMB shares (Windows shares and UNIX systems running Samba). Meta data is downloaded for films and music. A dynamic Web UI is provided for searching files. LanCrawler.Net search shared network files in a LAN.

Environment: Microsoft .Net WinForms, Lucene.Net, Firebird SQL DB, PrototypeJS, custom lightweight embedded webserver & indexer.

Timeframe: *November 2012*

Project: WinHue

Code: <https://github.com/cDima/Hue>

Description: Windows C# Library wrapper for the unofficially reversed-engineered json-based protocol for the Philips Hue lights.

Timeframe: *June 2012 - December 2012*

Project: LanNotifier

Code: <https://github.com/cDima/LanNotifier>

Description: Notifier of new connections and disconnections inside of a network; notifies when an mobile phone is in range of the home network server and optionally turns the lights on in the house

Project: PartyHue *March 2014*

Code: <https://github.com/cDima/PartyHue>

Description: Philips Hue Windows app - a modern windows-client for Hue Lights.

Project: vtoure *March 2014 - May 2014*

Code: <https://github.com/cDima/vtoure>

Vtour is a social music concert search app for the Russian facebook VK.com network; based on Songkick API, AngularJS; lets one easily search for concerts with Google Geo API and VK API.

Social profiles

Google+: <https://plus.google.com/+DmitrySadakov/about>

GitHub repos: <https://github.com/cDima>

Linkedin: <https://www.linkedin.com/in/sadakov>

twitter: <https://twitter.com/cDima/>