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SUMMARY OF QUALIFICATIONS

- Over fifteen years of software development experience with roles and responsibilities involving development management; coaching and supervising development teams; liaising with business and project scoping; systems analysis, architecture and design; integration relationships, architecture and implementation; big data analysis and processing.
- Well-versed in object-oriented development and design; knowledge of patterns of Object-Oriented Design;
- Conversant with XML-based technologies like XSLT and XPath;
- Expertise in using modern web-standards. CSS-based layout with cross-browser compatibility, semantic mark-up, W3C accessibility, microformats and on-screen typography. Strong skills in JavaScript development;
- Experience in converting monolithic applications into reusable SOA components;
- Over thirteen years of UNIX experience. Eleven years of extensive system and network administration experience on a variety of platforms providing a multitude of services and general security. Some experience in Gentoo Linux development.

TECHNICAL SKILLS

Programming Languages: Java, Scala, Groovy, PHP, Python, JavaScript, SQL, Swift;
Technologies: OOP, OOD, MVC, ORM, HTML5, CSS3, SASS, AJAX, JSON, XML, XSD, XPath, XSLT, DOM, SAX, XML-RPC, AIR;
Java: Spring Framework, Spring Boot, Thymeleaf, JDBC, JPA, Hibernate, QueryDSL, BoneCP, Commons, Protobufs, XOM, JMS, UMS, JReport, Smack;
Scala: Akka, Slick (ScalaQuery), SQueryl;
Application Servers: GlassFish, Jetty, Tomcat, WildFly (jBoss);
PHP: PEAR/PECL, Zend Framework, Symfony, Doctrine, ADOdb, Creole, PDO, Propel, Smarty, Swift Mailer, PHPUnit, XDebug;
Python: Plumbum;

JavaScript:	jQuery, jQuery UI, AngularJS, Dojo Toolkit, Prototype, script.aculo.us, Ext JS, Highcharts, Moment.js, Xinha, Firebug, QUnit;
Cloud Services:	EC2, S3, SQS, RDS;
Databases:	MySQL, MongoDB, RethinkDB, SQLite;
Server Services:	Apache HTTPD, nginx, ProFTPD, Postfix, Courier-IMAP, SquirrelMail, TR-IRCD, InspIRCd, IRC Services, Openfire, memcached, Sphinx, phpMyAdmin, AWStats;
Tools:	Unix shell, SVN, Git, Gradle, Ant, Maven, WebJars, Vagrant, Docker, Chef, Puppet, Consul;
Platforms:	Linux (RHEL/Fedora/CentOS, Debian/Ubuntu, Gentoo).

EXPERIENCE

Software Architect and Development Project Manager World Manager (<http://worldmanager.com/>), Sydney

November 2011 — Present time

“World Manager” is a SaaS platform that provides e-learning/training, communication, business operations and HR tools. The service is used by many leading Australian brands, including Hungry Jack's, Gloria Jean's, Boost, Oporto, Bras'n'Things, Cue, Flight Centre, All Phones, Autobarn, and others.

My responsibilities include:

- Supervise developers and promote best practices;
- Adopt new technologies, update and improve software design and infrastructure of the platform;
- Analyze projects, provide timelines to the business and ensure SDLC process;

Some of the noteworthy projects which I was responsible for:

Online Forms (a future project)

Goal:	Design and build a generic form/questionnaire builder tool (similar to Google Forms) that will replace existing custom survey functionality.
Role:	Designed the functionality; wrote the specification; and performed initial technical research.
Technologies:	Java, Scala, Spring Framework, Spring Data, QueryDSL, Formio (http://formio.net/) .

SOAP API

Goal:	Redesign and build new SOAP API for the platform.
Role:	Designed the new version of the API and wrote the specification; supervised technical research, prototyping, and development.
Technologies:	Java, Scala, Spring Framework, Spring Data, Apache CXF (http://cxf.apache.org/) , QueryDSL, ScalaTest, Mockito.

Content repository

- Goal:** Create a new unified content storage system that can manage all kinds of user-uploaded documents and system resources; store meta-information (basic file info, such as size, as well as user-assigned description, labels and so on); generate derivative copies (e.g. thumbnails); automatically distribute content to multiple regions; and serve static files efficiently.
- Role:** Performed technical research and prototyping; designed the architecture and supervised development.
- Technologies:** Java, Scala, Akka, QueryDSL, AWS (EC2, RDS, S3, SQS).

New platform foundation

- Technologies:** Java, Scala, Spring Framework, Spring Boot, Spring Data, WebJars, Thymeleaf, BoneCP, QueryDSL, Typesafe Config, Logback, Typesafe Scala Logging, RequireJS, AngularJS, AngularStrap, jQuery, SCSS, [Twitter Bootstrap \(http://twitter.github.com/bootstrap/\)](http://twitter.github.com/bootstrap/), Gradle, ScalaTest, Mockito.

Continuous integration and automated testing

- Goal:** Automate functional testing and introduce continuous integration to the development process.
- Role:** Coached developers, trained QA, supervised server infrastructure configuration.
- Technologies:** Java, Scala, TestNG, ScalaTest, Selenium Grid, Gradle, TeamCity.

Cache generation

- Goal:** Implement a new optimized high-performance concurrent system to compute statistical data.
- Role:** Designed and implemented the software.
- Technologies:** Scala, Akka, BoneCP, SQueryl.

Automated server provisioning

- Goal:** Define standard server environments and introduce automated server provisioning.
- Role:** Implemented the most part of the configuration; coached other team members.
- Technologies:** Puppet, Puppet modules, Git, Plumbum, Consul.

AWS migration

- Goal:** Move servers into the cloud and make the infrastructure more flexible and scalable.
- Role:** Designed server topology, communication channels, and security.
- Technologies:** AWS (EC2, RDS, S3, SES).

Mobile version of Online Training tool

- Goal:** Re-implement existing Adobe Flash-based application using HTML5 and responsive CSS to bring it to mobile devices.
- Role:** Performed technical research and design, supervised development.
- Technologies:** HTML5, CSS3 and SCSS, JS, jQuery, AngularJS, [Twitter Bootstrap \(http://twitter.github.com/bootstrap/\)](http://twitter.github.com/bootstrap/).

Mobile version of ACTIV presentation tool

- Goal:** Re-implement existing Adobe Flash-based PowerPoint-like presentation tool using HTML5 and SVG to bring it to mobile devices.
- Role:** Performed technical research and design, supervised development.
- Technologies:** HTML5, CSS3 and SCSS, JS, jQuery, [Raphaël.js \(http://raphaeljs.com/\)](http://dmitrybaranovskiy.github.io/raphael/).

Lead Application Developer, Technical Lead [Solution4 Software \(http://www.solution4.net.au/\)](http://www.solution4.net.au/), Sydney

April 2010 — November 2011

The main product of the company is [Senro CRM \(http://www.solution4.net.au/products/senro/\)](http://www.solution4.net.au/products/senro/) — a *software-as-a-service* for financial advisers and mortgage brokers. Solution4 also develops and offers subscription to [Vision \(http://www.solution4.net.au/products/vision/\)](http://www.solution4.net.au/products/vision/) service, a real-time financial data feeds with flexible product searches and filtering.

I was responsible for the design of core components of Senro, and supervise the Senro development team.

My main responsibilities and accomplishments were:

- Designed and implemented a number of new business components (using Zend for front-end and Spring/Hibernate for back-end);
- Reviewed design, and supervised development and integration of the majority of new business components;
- Drew up a plan and supervised re-implementation of legacy components;
- Refactored the majority of model classes for better object-oriented design;

to decrease coupling, remove improper relations, deprecate duplicated code, and simplify reusability;

- Expelled dependencies on outdated versions of third-party libraries (including but not limited to Commons, Lucene, Zend, and jQuery);
- Re-structured the codebase into logical submodules. Displace third-party libraries' sources with managed dependencies;
- Significantly refactored of almost the entire JavaScript codebase of the system, abolishing most of the duplicated code;
- Developed several JavaScript controllers for web-forms and promoted this approach to the development team;
- Prepared base infrastructure for data-based unit tests. Promoted unit testing to the development team;
- Reworked several key parts of the system, including security module to improve performance when dealing with millions of records;
- Developed new and improved existed tools for common tasks;
- Started migration of the front-end part of the system from Zend to Symfony 2/Doctrine 2;
- Designed and implemented new version of the service administration tool (Scala, [Play! Framework \(http://playframework.org/\)](http://playframework.org/))
- Coached developers in OOP/OOD, ORM, MVC, DVCS best practices;
- Advised the offline client team regarding data transmit and communication over XML-RPC/SOAP between Vision service (Java) and desktop application (C#).

Lead Application Developer Wireless Broadband Australia, Sydney

August 2009 — March 2010

WBA is a major Australian wireless broadband telecommunication company that is represented by [Unwired \(http://unwired.com.au/\)](http://unwired.com.au/) and [Vividwireless \(http://vividwireless.com.au/\)](http://vividwireless.com.au/) brands.

I was primarily focused on the design and development of the new backend systems for Vividwireless project.

My main responsibilities and accomplishments were:

- Analysed and refined the domain object model and database schema;
- Introduced Doctrine and Symfony frameworks to the development team;
- Provided consistency between Doctrine's and Hibernate's domain models;
- Interacted with both Java and PHP teams and advised integration of Spring/Hibernate-based back-end and Symfony/Doctrine/Drupal-based front-ends;
- Designed POJOs and POPOs to transmit data over SOAP between Java back-end and PHP front-end;

- Reviewed development on several key systems, proposed and implemented a multitude of interoperability improvements;
 - Designed and implemented a framework and its modules for Customer Service's back-office;
 - Coached developers in OOP/OOD, ORM, UMS, and MVC best practices;
 - Provided suggestions for further system development and enhancement.
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Senior Web Application Developer

[Click2it Digital Marketing Agency \(http://click2it.com.au/\)](http://click2it.com.au/), Sydney, Australia

February 2009 — May 2009

[SumoSalad \(http://sumosalad.com/\)](http://sumosalad.com/) — The second, completely reworked, version of the health fast food restaurant franchise website.

- Goal:** Replace the old static website, create a new one with complete information on restaurant menu and locations, as well as publications and forms stored in the database, and with dynamic calculation of nutritional information based on recipe data.
- Role:** Performed data analysis, designed database schema, implemented server-side software, provided guidance for further project support.
- Technologies:** LAMP, Symfony, Doctrine, Zend Framework, Google APIs.
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Senior Software Engineer

Navigator Publishing, Moscow, Russia

June 2002 — November 2008

Software architect, lead developer and system administrator of a computer and video gaming website that provides news, articles, gallery, downloads and encyclopaedia, as well as forums, chat rooms, VoIP, game servers and other community-related services.

My main responsibilities and accomplishments were:

- Reviewed available content, researched competing sites, gathered requirements and prepared proposals for further project development;
- Designed and developed completely new content management and publishing system taking into account special needs. In particular, designed database schemes, developed ORM framework, XSLT-based template system and MVC architecture;
- Implemented an entirely new version of website using a developed CMS;
- Designed CSS-based semantic layout and hand-coded XSL/XHTML templates;

- Produced JavaScript for form validation and other types of dynamic interaction with user;
- Performed gradual transition from preceding website;
- Set up and maintained the mail system including SMTP and POP/IMAP services, spam and virus filtering, [webmail \(http://mail.gamenavigator.ru/\)](http://mail.gamenavigator.ru/) and user database integration;
- Arranged and supported web hosting services for private gaming projects;
- Set up and maintained chat system including IRC server with services and bots, XMPP server with transports, web-based client and user database integration. Begun work on AIR-based desktop client;
- Installed, configured and supported [forums \(http://forums.gamenavigator.ru/\)](http://forums.gamenavigator.ru/), [wiki \(http://wiki.gamenavigator.ru/\)](http://wiki.gamenavigator.ru/), VoIP and several game servers;
- Coordinated the development of interaction between third-party desktop applications and website's API;
- Mentored junior programmers and promoted usage of best practices;
- Designed and developed an online store that is integrated with main website;
- Designed and implemented next major revision of the [website \(http://gamenavigator.ru/\)](http://gamenavigator.ru/);
- Conceived and implemented administrative tools to automate system maintenance, monitoring services and backup (utilising Perl, Python and UNIX toolbox);
- Researched and implemented ways of performance improvements (including service dedicated servers, low-level operating system tuning, disk usage optimisations, database configuration, web server lightweight front-ends and application back-ends, in-memory caching and client-side caching);
- Created and maintained general documentation regarding server management and system administration, service configuration and integration, base conceptions behind developed applications and used technologies, established coding standards, guidance for localisation, modernisation possibilities, etc.;
- Provided system administration tasks, ongoing development and support for created web system;
- Begun work on the migration of the entire system to Spring framework;
- Begun work on AIR-based desktop application that should retrieve content from the website via internet;
- Begun work on Facebook application for auto-publishing picked games and articles on customers profile pages.

More detailed version of my resume is always available online at esyfur.com/about/cv.

PERSONAL PROJECTS

[RethinkDB Scala Driver](#)

[Gradle Property Utilities Plugin](#)

[Selenium Grid Init Scripts](#)

[jQuery Cascade Plugin](#)

EDUCATION

An year of Applied Mathematics and three years of Mathematics and Management, [Moscow State Institute of Electronics and Mathematics](#) (Technical University), MIEM, Russia, 2004.