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PROFILE

Software Development Engineer with over 15 years of experience designing, implementing and supporting software solutions in various domains: finance, insurance, healthcare, energy, automation. Extensive experience includes programming in Java, JavaScript, Groovy, NodeJS, Python and many other programming languages, as well as work with Spring, Quarkus, ME(AR)N (Mongo ExpressJS React/Angular NodeJS), Apache Camel, OSGi, Ruby On Rails, Docker, Kubernetes and many other different frameworks and tech stacks . Throughout my career I had to learn new environments, tools, libraries and wear different hats from Solution Architect to DevOps Engineer. Current areas of interest include micro-service and streaming data architectures; on-premise, cloud and hybrid deployment models; domain specific languages.

- ✓ Delivered code and performed code review.
- ✓ Provided guidance and shared technical knowledge with developers, be it cloud technology, aspects of configuring CI/CD or choosing data structure/algorithm for implementation.
- ✓ Delivered technical design and documentation working as a mediator between developers.
- ✓ Developed automated tests for functional testing using Robot Framework, Selenium, Playwright, Cucumber.
- ✓ Lead teams of developers and QA engineers navigating between DevOps routines and POC implementation to clarify technical requirements.
- ✓ Have prepared interviews strategies and conducted many technical interviews with students on campus and with experienced professionals.

TECHNICAL SKILLS

- ✓ **Programming:** Java, JavaScript, Groovy, Python, C#/F#, Clojure, Ruby, C/C++
- ✓ **DevOps:** Linux Shell, Gitlab CI/CD, Jenkins, Maven, Gradle, Git, Mercurial, svn
- ✓ **Cloud:** Amazon Web Services (AWS), Azure, OpenShift
- ✓ **Virtualization:** AWS ECS, Docker, Kubernetes, VirtualBox
- ✓ **Database:** MySQL, Mongo, DynamoDB, Redis, MS SQL, Oracle, SQLite, Berkley DB.
- ✓ **Technologies:** Spring and Spring Boot, Quarkus, Liferay, Apache Camel, SOAP and REST APIs, OSGi, JBoss Drools, iBatis, Hibernate, JNI, Swing, SWT, Java 2D, RMI, EJB, JTA, JMS, JNDI, JDBC, JSP, Servlets, XML-RPC, XML, XSLT, XPath, JAX-RPC, WSDL4J, Axis, Hibernate, JBoss Drools, Websphere 5/6, JBoss AS, IBM Websphere Process Server, IBM BPM.
- ✓ **Web:** ReactJS, AngularJS, Webpack, HTML5, CSS3, Less, SASS

CERTIFICATION

- ✓ AWS Certified Cloud Practitioner (CLF-C01)
- ✓ Sun Certified Programmer for Java (CX-310-035)
- ✓ Sun Certified Web Component Developer (CX-310-081)

PROFESSIONAL EXPERIENCE

Audacious Inquiry – Baltimore, MD

Lead Software Engineer

Mar 2021 – Present

Development, support and maintainance of PULSE (Patient Unified Lookup System for Emergencies) and Gateway (data exchange with National Network for Electronic Health Records exchange) platform.

The platform based on multiple applications and services deployed in AWS cloud and leveraging its functionality, such as SQS, SNS, ECS, RDS, DynamoDB, Lambda, S3) with responsive modern UI/UX, SSO and integrations with National Network, third party services.

- ✓ Hands-on code delivery
- ✓ Turning Product manager and product owner visions for the applications into a detailed technical documentation
- ✓ Architecture and design documentation and DevOps for cloud infrastructure and CI/CD
- ✓ R&D work, Proof-of-concept implementation and providing direction and support for the development team
- ✓ Integration and testing from QA to testing connectivity with third-party services (DataDog, Surescripts, eHealthExchange, etc)
- ✓ Responsible for Level 3 customer and applications support.
- ✓ **Skills:** Node.js, Java, .NET Framework, MySQL, Terraform, AWS, Continuous Integration and Continuous Delivery (CI/CD), Fast Healthcare Interoperability Resources (FHIR), HL7 Standards, XML

Senior Software Engineer

Mar 2019 – Mar 2021

Development and support of modular based application platform for connected healthcare - ULP (Unified Landing Page). This platform was leveraging Liferay OSGi and portlet architecture to bring highly customizable applications to the clients - HIEs, providers and payers, integrating it into their software stack as well as provide best user experience and integration via SSO.

- ✓ Hands on code delivery and code review for code in the back-end
- ✓ R& D and delivery of design documents for new features, in particular, leveraging portlets and OSGi architecture.
- ✓ Quality tests and Improvements in CI/CD process and transition from on on-premise type deployment to a cloud (AWS) deployment.
- ✓ Support and troubleshooting of the issues submitted by the customers and internal users
- ✓ **Skills:** Java, Liferay, OSGi, Shell Scripting, Docker, Node.js, MySQL, JavaScript, HTML5, CSS

Avanade (Infusion before 2017) – Raleigh, NC

Aug 2014 – Mar 2021

Senior Consultant

Design, documentation, hands-on code development and code review. Major project - complete innovation - metadata driven, highly configurable platform. The first implementation of the concept and design was an application for all aspect of life insurance underwriting for Metlife subsidiary in Japan (Alico).

Principally staffed on MetLife. Worked directly on the SWAT Applications Team - small team of talented developers that reports directly to the CIO for Rapid Application Development.

Helped to augment recruitment processes in MetLife for growth and promotion of tech culture across the organization, conducting over 100 technical interviews with developers to senior technical architects and leads.

- ✓ Implementation and maintainance of the configuration application (Composer) using Node.js, AngularJS, React and Mongo
- ✓ Design and architecture of the back-end utilizing reactive streams (Reactor) to achieve better performance and scalability.
- ✓ Design and implementation of application Groovy scripting, testing frameworks, loading and data migration tools.
- ✓ Organization of CI process based on Docker containers.
- ✓ Management of development process through JIRA, Jenkins, Stash, VSTS
- ✓ Education and training of engineering teams; technical interviewing of candidates for Metlife and Infusion and recruitment on campus (UNC).
- ✓ **Skills:** Mongo; Java; Spring, Reactor, Groovy; JavaScript; NodeJS; Docker; Shell Scripts; AngularJS; React; HTML5; Less; JIRA

Stone River, Inc – Orlando, FL

Apr 2013 -- Aug 2014

Senior Software Development Engineer

Support and development of the software product for mid-size workers comp insurance companies. Fullstack development on Java, AS/400 and JBoss/Wildfly platforms. Customer support and customization. Test and release process using automation tools.

- ✓ Customer and technical support for multiple applications.
- ✓ Organization and execution of third party software compatibility testing using Selenium.
- ✓ Development of user interface, back-end processes and auxiliary scripting
- ✓ Organization of the testing and release process.
- ✓ **Skills:** Websphere AS 7; JBoss 5, 6; Wildfly 8; AS/400; MS SQL Server; Java; Hibernate 3.5; Python; HTML5; Javascript;

Click2Interact – Orlando, FL

Sep 2012 – Jan 2013

Developer

Design and implementation of teacher-parent communication applicaiton for child development centers and pre-schools. Fullstack development using Ruby on Rails framework, JavaScript and Clojure.

- ✓ Design and implementation of the back-end server code using Ruby On Rails framework
- ✓ Database design and business model prototyping. Researched the planetarium, its potential partners, and its competitors

- ✓ User interface using Twitter Bootstrap, jQuery and HTML5. Pitched a cohesive campaign idea and ways to activate it
- ✓ **Skills:** Ruby On Rails 3.2, MySQL, RESTful Web-Services, Rackspace Cloud, jQuery, Twitter Bootstrap,

Prognoz – Perm Russia
Software Engineer

Mar 2012 — Jul 2012

Development of an "Electronic Government" platform based on IBM BPM and end-user web-application using GWT. Fullstack development with a strong focus on web-services and development for BPM.

- ✓ Tuning, installation and configuration of the IBM Websphere Process Server and Business Process Manager in cluster environment.
- ✓ Development of the business process integration in Integration Designer.
- ✓ Development of the "Meetings" application for the Moscow Government (documents exchange, meetings and appointments scheduling, notification services) for mobile and desktop platform. <http://www.prognoz.com/>
- ✓ **Skills:** Java 1.6, GWT, JPA 2, Web-Services, IBM Websphere Process Server and IBM BPM 8

Marlabs – Orlando, FL
Consultant/Programmer Analyst

Mar 2007 — Dec 2012

Worked as a consultant on multiple projects at Siemens Shared Services (division of Siemens) developing custom vendor management application, documents management application, FileNet migration tools, scan and recognize application, application for customs compliance control; and at Team Disney, where I was involved in the project refactoring and improving existing system for bookings and reservations.

Client: Siemens Shared Services
Project Siemens Compliance - SICOM (USA, Germany)

Nov 2010 — Dec 2012

- ✓ Analysis of the business requirements and prototyping
- ✓ Changes in user interface of the applications (JavaScript, HTML, CSS)
- ✓ Changes in back-end processes (Java, T-SQL, Drools, XSLT) directed to a better performance, reliability, and scalability of the back end data processing
- ✓ Migration of the application in SICOM stack to a new application platform (SQL Server 2005, WebSphere 6.1) to a different location (both software and hardware transition)
- ✓ Optimization of development and release cycle - quicker builds and deployment
- ✓ **Skills:** Java 5, RAD 7.5, Eclipse Platform, Drools, SQL Server 2000/2005, WebSphere 5.1/6.1, Javascript, CSS, HTML, XML/XSLT

Client: Team Disney
Project Disney One Air Project

Apr 2010 — Oct 2010

Improvements of existing SBC Booking and Reservation system

- ✓ Analysis of business and technical requirements; prototyping
- ✓ Implementation of Secure Flight requirements for air booking
- ✓ Changes to existing data model, EJB, user interfaces (HTML, CSS, Javascript)
- ✓ Integration testing of changes to existing applications (A La Carte, SBC)

- ✓ Shell/Perl/AWK scripts for error detection and post incident analysis (parsing and analysis of log files)
- ✓ Triaging, troubleshooting the incidents, fixing, testing, integration (full maintenance cycle)
- ✓ On call support for the applications
- ✓ **Skills:** Java 5, RAD 7.5, JSF, Struts, HTML, JavaScript, jQuery, Oracle 10g, Websphere 6, JBoss AS, EJB, jQuery, MQ Series, Ant, ClearCase, AIX, Shell/AWK/Sed scripting, Perl

Client: Siemens Shared Services

Nov 2010 — Dec 2012

Project Project: Global Services Customs Declaration

application that allows users to clear up shipments for import/export operations

- ✓ Analysis of business requirements
- ✓ Organization of development team meetings and conference calls
- ✓ Wrote technical specification for web services (WSDL and WSDD)
- ✓ Designed front end using Java Servlets, JSP, HTML, CSS, and Javascript using AJAX technology
- ✓ Configuration of iBatis ORM and Spring Framework
- ✓ Design and implementation of business logic and data processing routes using Apache Camel
- ✓ Wrote business rules using Drools and business logic processing customs declarations
- ✓ Data transformation between DIN5 CUSDEC formats
- ✓ Created Junit tests and Ant build scripts
- ✓ Tested integration with logistic companies (Kuhne& Nagel, DHL, Fedex)
- ✓ **Skills:** Java 5, Apache Axis, Apache Camel, JBoss, Drools, Spring 2.5, Apache iBatis, MS SQL Server 2000, T-SQL, WebSphere 6, XML/XSLT, jQuery, Subversion, Ant, soapUI

Client: Siemens Shared Services

May 2008 — Jun 2009

Project Paperless invoicing application

- ✓ Worked closely with third party companies (ScanOne, DirectInsite) and with business clients (Siemens Operating Companies)
- ✓ Wrote technical specification for processing invoice information
- ✓ Data transformation to/from OAGIS, DIN 5, EzAP formats
- ✓ Database design for the invoices images storage on MS SQL Server 2005
- ✓ Developed business rules engine (table driven), and its front end accessible by the business clients
- ✓ Developed high performance TIFF library based on libtidd JAI and ImageIO
- ✓ Tools for extracting invoice image data from Filenet into application database
- ✓ Integration of the paperless invoice processing application with existing AR/AP applications
- ✓ Organization of source code management using Subversion
- ✓ Created Junit tests and Ant build scripts
- ✓ Integration testing with outsource scanning/processing companies (ScaneOne, DirectInsite)
- ✓ **Skills:** Java 5, Apache Camel, Spring 2.5, Apache iBatis, MS SQL Server 2000, T-SQL, WebSphere 6, XML/XSLT, jQuery, Subversion, Ant

Client: Siemens Shared Services
Project Invoice Management Application

May 2007 – Apr 2008

- ✓ Developed vendor management module based with front-end on Struts and Javascript.
- ✓ Wrote transformation of vendor/invoice data to/from XML, CSV, EDI, DIN5 formats.
- ✓ Designed data validation and consistency checks using Java and XML Schemas
- ✓ Tuned application and database performance using caching, using NIO, queries optimization, indexes.
- ✓ Designed and implemented application usage statistics based on Javascript and HTTP logs.
- ✓ Developed web-based tools for testing using Python (Pylons), HTML and Javascript.
- ✓ Wrote integration of the application with SAP (Spiridon) using JCo.
- ✓ Created JUnit tests and Ant build scripts.
- ✓ **Skills:** Java 1.4, MS SQL Server 2000, T-SQL, XML/XSLT, Struts, Websphere 5, Python, HTML, JavaScript, Ant,

Fermi National Accelerator Lab – Batavia, IL
Engineer

Jan 2005 – Aug 2005

Multiple internships and then engineering position at the high-energy physics project. Helped to design and implement various tools and applications used for data acquisition and control. Participated in the high energy physics international collaboration for Large Hadron Collider (LHC) experiment. At the time United States team worked on the Compact Muon Solenoid (CMS) – part of the LHC experiment - building alignment system for muon detector.

- ✓ Wrote technical specification for a data acquisition system.
- ✓ Implemented multi-thread high performance server in Java controlling the system.
- ✓ Designed and tested software to communicate with hardware via Cyclade TS consoles.
- ✓ Database design for system configuration.
- ✓ XML-RPC interface to the control server functionality.
- ✓ Desktop program for system control using Swing
- ✓ **Skills:** Java 1.4, Swing, HSQL, Hibernate, XML-RPC, Python, Shell scripting

Research Assistant in 2001, 2002, 2004

- ✓ Performed data analysis (regression analysis of statistical data from the detectors) of the data from optical sensors using ROOT package.
- ✓ Developed software for above mentioned data analysis in C/C++ using ROOT framework.
- ✓ Designed blueprints for and constructed hardware test bench for optical sensors testing and calibration.
- ✓ Developed software in C and Python for optical sensors testing and calibrating.
- ✓ **Skills:** C/C++, ROOT, Python, Shell Scripting

InfoTelecom LLC – Perm, Russia
Software Developer

Oct 2003 – Jul 2004

Worked on the product software - highly customizable system of web-traffic statistics and monitoring. Back-end development on Oracle using PL/SQL and Java.

- ✓ Designed and implemented website statistics collection system based on Javascript, servlets, and PL/SQL
- ✓ Wrote graphs, charts, and diagram building library using Java2D and ImageIO, PL/SQL interface to it
- ✓ Implemented website template based generation software
- ✓ Developed website static content deployment tools using FTP
- ✓ **Skills:** Java 1.4, Java 2D, Oracle AS, Oracle 11g, PL/SQL, Shell Scripting, JavaScript

iTech Software – Perm, Russia **Software Developer**

Oct 2002 – Sep 2003

Developed software for telecommunication company. Have been doing both high-level and low-level programming using C and Java.

- ✓ Developed web interface using JSP and Java for payphones management.
- ✓ Implemented Java code to work with IIS module in Visual C++ that controls network connections to the payphones.
- ✓ Wrote testing scenarios and performed software unit testing.
- ✓ **Skills:** Java 1.3, JNI, C/C++, JSP, JDBC, MS IIS, Interbase

EDUCATION

- ✓ M.Eng. Industrial Engineering, Lehigh University
- ✓ B.Eng. Automated Control Systems, Perm State Technical University, Russia

BOOKS

Instant Apache Camel Messaging System, *Packt Publishing*, 2013, ISBN 9781782165347

LANGUAGES

English, Russian