DIMITAR MAKARIEV, M.S.

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SUMMARY

Experienced Senior Software Architect/Developer with twenty-three years hands-on experience working with Java technologies—including a number of Open Source technologies

- Experienced team lead using agile methodologies, certified SCRUM master since 2007.
- Design and development of complex, scalable, highly available, distributed multi-tier web systems in the healthcare domain.
- Wide experience with a lot of the relevant Open Source technologies/frameworks (Spring, JEE, AOP, WS, REST, etc.)
- Extensive usage of the complete Java Enterprise Architecture stack: service layer, O/R mapping with JPA - EclipseLink, Hibernate, OpenJPA, DataNucleus,,
- UI layer using Angular, React, Vue, JSF 1.2/2.x, SpringMVC, JSP 2, JSTL, Angular JS, JQuery, HTML 5,
- Microservices Spring Boot and SOA (JAX-WS, JAX-RS, EAI patterns)
- Cloud Computing (Kubernetes, Docker, Amazon ECS, AWS, Heroku)
- A Proponent of Domain Driven Design related methodologies like AOP and Dependency Injection.
- Team player, always willing to share and gain knowledge, particularly in pair programming sessions

EDUCATION

1997 - 2002

Master of Science in Applied Mathematics at Sofia University "St. Kliment Ohridski"

Main focus: Mathematical Economics - Value at Risk, Risk Analysis, Finance Theory, Multicriteria Optimization, Mathematical Optimization, Probability, Statistics, Stochastic Processes, Actuarial Mathematics, Portfolio Theory

Master Thesis: Implementation of "Value at Risk" in the context of foreign currency exchange. It has an accompanying spring MVC based web application.

TECHNOLOGY EXPERIENCE

OS	OS X, Linux (Debian, Ubuntu,), Windows (2000, XP, Vista, 7),
Cloud	Kubernetes, Amazon EC2, AWS, Amazon ECS, Heroku VMWare ESX server, Virtual Box Docker
Languages	Java, Groovy, AspectJ, PHP (LAMP), JavaScript
Development	Spring Boot 1/2/3, Spring Framework 1/2/3/4, JPA 1/2, EclipseLink, Hibernate, OpenJPA, DataNucleus, AOP (AspectJ, SpringAOP), JSF 2.x and 1.2, Facelets, Primefaces, Richfaces, Spring MVC, Grails, Struts, Servlets, JSP, JSTL, J2EE/JEE5/JEE6/JEE7 Web Profile, EJB 2/3, Maven 1/2/3, Ant, HTML,JavaScript, AngularJS, JQuery, Web Services, REST, SOAP, JAXB, JAX-WS, JAX-RS, Portal technologies and standards (JSR168/286, WSRP), LifeRay, JUnit, Mockito, Selenium, BPMN – Activiti, Camunda
Applications	Eclipse, Netbeans, IntelliJ Idea GIT, Mercurial, Subversion, CVS, Hudson, Jenkins, Confluence Jira /Wiki ,
Security	OAuth 2.0; Spring Security 2/3/4, JAAS, SAML 2, WS-Trust
Databases	PostgreSQL Oracle, MySQL, H2, Derby, Hypersonic - HSQLDB
NoSQL	Mongo DB, Apache Cassandra,
Application Servers	Tomcat, Jetty, Glassfish, JBoss AS, WildFly, Spring Boot
Messaging	Rabbit MQ, Apache Camel, ActiveMQ, Amazon SQS, Apache Kafka

PROFESSIONAL EXPERIENCE

February 2011 – Present

Independent Consultant / Software Architect / Developer

Based in San Francisco Bay Area, California, USA

I'm involved with the full lifecycle of creating of web applications: analysis, architecture, design and implementation. Usually using Spring related technologies (Spring Boot, Spring Core, Spring MVC, Spring Data, Spring Security, etc.) and sometimes Java EE – CDI, JSF, JAX-RS, JPA, Bean Validation (JSR 303), Portlets - JSR168/286 (running on Liferay)

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February 2011 – July 2023 – Lead contractor at TrustArc (TRUSTe)–

Software Architect /Developer

I was initially hired as independent contractor (1099) for a 3 weeks project.

During the years, I've influenced the architecture used in TrustArc (TRUSTe) by introducing several technologies and architecture styles:

  - Spring Framework - since Feb 2011

  - JPA - using Hibernate as implementation

  - JAX-RS - using Jersey as implementation, since Jan 2012

  - OAuth 2.0 - initially internal implementation (Jan 2012), later based on Spring Security OAuth

  - Spring Boot - since Oct 2014

  - Domain Driven Design - (since 2012) though not fully implemented - the tactical patterns are used to improve the projects structure. The grouping of the different technical aspects around the domain concepts is contributing to high cohesion and significantly increases the developers productivity (compared to the more traditional layered approach).

  - Microservices - (since Oct 2014) - used in the latest enterprise projects of TRUSte

  - Docker - (since Oct 2014) - used only for local development

Oct 2018 – July 2023 - Privacy Central - enterprise expert system /rule engine in the privacy domain.

Oct 2014 – Oct 2018 - Privacy Assessment Manager - enterprise privacy solution.

I've refactored the application from layered to domain driven structure. The codebase was reduced to ~50% of it's original size – using use Spring Boot, Angular JS,

Dec 2014 - Jan 2015 - Authentication and Authorization Service - OAuth 2.0 provider - based on Spring Boot, Spring Security and Angular JS.

Jan 2012 - Sep 2015 - Ads Compliance Manager (mobile platform) - REST service.

Under normal conditions, the load reaches close to 1000 requests per second, the production environment is deployed on 2 Tomcat nodes.the implementation is based on the Spring Framework, JPA (hibernate) and JAX-RS (Jersey). Uses DeltaSet (my own internal framework) for the Admin UI of the application. The Admin UI has 347 different views; the source needed to configure them is <700 lines.

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July 2009 – July 2011

Software Architect at InterComponentWare Inc

I was relocated to San Mateo, CA from Sofia, Bulgaria. My main task is to provide **Technical Expertise** for the US related business decisions of InterComponentWare AG. Also to participate in the
R&D activities of the subsidiary:
- Integration with **Google Health**
- Integration with **Microsoft Health Vault**
- Introduction of portal technologies (JSR 286, **Liferay**)

October 2004 – July 2011

Software Architect at InterComponentWare AG

Participant in the **Architecture Board** Meetings of the company, Responsible for:
- Web framework (introducing, supporting) used in "LifeSensor" - personal health record.
- Research and implementation of prototypes based of various new technologies (JSF, Spring MVC, GWT, Wicket, Tapestry, Grails)
- Organizing, leading, defining architecture, implementation of various customer projects.
- Participating in meetings with customers and partners as technology expert

January 2008 – April 2009

Development Lead at Bulgarian National Health Portal

The portal is part of the Bulgarian "NATIONAL HEALTH PORTAL AND ELECTRONIC PERSONAL AMBULATORY BOOKS" project developed by ICW and Kontrax for the Bulgarian Government, The portal is the entry point for the Personal Ambulatory Books, and offers the Bulgarian citizens immediate access to up-to-date health information, a registry of all physicians, hospitals and pharmacies. The project was awarded by **The European Institute of Public Administration** (http://www.epsa2009.eu) as "**BEST PRACTICE CERTIFICATE HOLDER**".
I was responsible for the development (**architecture, implementation, acceptance tests**, etc.) of the Health Portal.

June 2006 – January 2008

Freelancer at Ministry of Environment and Water of Bulgaria

The project was financed by funds from the European Commission. The request was for Custom CMS system for "Control and Management of Chemicals" commission of the Bulgarian "Ministry of Environment and Water".
I was leading and implementing the whole project. Used technologies: Apache Jackrabbit, Spring MVC, Ajax, Acegi Security, Derby DB.

February 2001 – October 2004

Team Leader at InterComponentWare Bulgaria Ltd

I was team and technical leader of four developers. Participating in defining, designing, implementing of various small sub projects of the main application LifeSensor 6 of the company:
- Health Summary - aggregation of data
- Login - authentication in the application and session handling
- Internal Navigation System - the menu sub system including authorization aspects

April 2001 – February 2002

Senior Developer at InterComponentWare Bulgaria Ltd

Senior Developer responsible for designing and implementing of various small sub projects of the main application LifeSensor 6 of the company:
- Concept and Realization of General List ver. 1 - in-house ORM framework specialized in displaying lists of data, with capabilities similar to DisplayTag and iBATIS
- Concept for JavaScript Validation Framework - non intrusive JavaScript library
- Optimization of Menu sub system

April 2000 – January 2001

Software Developer at Web Factory Bulgaria

- Creating a lot of small web projects based on PHP/MySql, Perl/MySql, ASP 3.0 / Microsoft SQL server,
- Using DHTML, CSS
- Participating in the full life cycle of the projects.

April 2000 – January 2001

Junior Software Developer at Bulgaria Online

I was participating in the creation of a lot of small web projects, based on the LAMP stack.