

## CV of Bozhidar Bozhanov

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| Personal information        | <b>Name</b> Bozhidar Plamenov Bozhanov<br><b>Marital status</b> Not married<br><b>Nationality</b> Bulgarian<br><b>City of residence</b> Sofia<br><b>Birthday</b> 19 August 1987<br><b>Place of birth</b> Burgas, Bulgaria<br><b>Driver's license</b> Yes  |
| Contact information         | <b>Mobile</b> +359 888 415071<br><b>E-mail</b> <a href="mailto:bozhidar.bozhanov@gmail.com">bozhidar.bozhanov@gmail.com</a>   |
| Summary                     | I'm a senior software engineer, mainly working with Java-related technologies, interested in large-scale, distributed systems as well as researching open problems  |
| Education                   | 2007 – 2011 University of London, International programme, Goldsmiths College – BSc Computing and Information Systems<br><br>2001 – 2006 High school of mathematics and science “Ivan Vazov”, Dimitrovgrad - Informatics  |
| Working Experience          | <b>February 2014 - present: TomTom, contractor</b><br><input type="checkbox"/> Senior Java Developer<br><br><b>May 2013 – February 2014: Ontotext</b><br><input type="checkbox"/> Senior Java Developer and Architect<br><br><b>June 2010 – April 2013 : Fish4 / TMDR</b><br><input type="checkbox"/> Senior Java Developer<br><input type="checkbox"/> Team Lead<br><br><b>February 2009 – May 2010 : Materna Information &amp; Communications</b><br><input type="checkbox"/> Senior Software Engineer<br><br><b>September 2007 – February 2009 : SmartMinds Bulgaria</b><br><input type="checkbox"/> Software Engineer<br><br><b>July 2004 (internship): Neochim PLC</b><br><input type="checkbox"/> Intern programmer |
| Roles, Functions            | <input type="checkbox"/> Java (JavaSE/JavaEE) Software Engineer<br><input type="checkbox"/> Software Architect<br><input type="checkbox"/> Team Lead  |
| Target                      | <input type="checkbox"/> Developing effective, high-quality software solutions.<br><input type="checkbox"/> Actively participating in decision-making and intra-team discussions.<br><input type="checkbox"/> Quickly learning new technologies and frameworks<br><input type="checkbox"/> Handling both development and deployment & operations side of software (DevOps)  |
| Languages                   | <input type="checkbox"/> Bulgarian (native), English (fluent)   |
| Technologies and techniques | - Programming languages <ul style="list-style-type: none"> <li>o Fluent: Java</li> <li>o Intermediate: Scala, Javascript</li> <li>o Basic: Groovy, PHP, Python, Bash</li> </ul>   |

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|                 | <ul style="list-style-type: none"> <li>- Application servers / servlet containers: Apache Tomcat, GlassFish application server</li> <li>- IDEs: Eclipse, IntelliJ IDEA, Spring STS, NetBeans</li> <li>- Cloud technologies: <ul style="list-style-type: none"> <li>o Fluent: AWS: EC2, S3, CloudFormation, etc</li> <li>o Basic: GoogleAppEngine; OpenShift; Jelastic.</li> </ul> </li> <li>- Continuous Integration tools: Hudson / Jenkins, TeamCity</li> <li>- Data storage: <ul style="list-style-type: none"> <li>o Fluent: MySQL, PostgreSQL (SQL); Riak (NoSQL)</li> <li>o Intermediate : Oracle, MS SQL, HSQLDB</li> <li>o Basic : MongoDB, OWLIM, Neo4j, Cassandra</li> </ul> </li> <li>- Web development technologies and frameworks: Servlets/JSP, JSF, MyFaces, RichFaces, Spring MVC, Grails, Apache Struts, AJAX, jQuery, (X)HTML, XML, CSS, Adobe Flex, Google Web Toolkit, Spray</li> <li>- Data exchange technologies: Web Services - JAX-WS, Apache CXF, RESTful (Spring MVC, JAX-RS); JMS, RabbitMQ (AMQP), RMI</li> <li>- Database access frameworks: <ul style="list-style-type: none"> <li>o Fluent : JDBC, Hibernate/JPA</li> <li>o Basic: Hector (Cassandra API), spring-data, spring-data-graph, Sesame</li> </ul> </li> <li>- Database access tools : PhpMyAdmin, Toad, MySQL Administrator, Navicat, Postgre pgAdmin, Oracle SQL developer. MSSQL Management Studio</li> <li>- Application frameworks: <ul style="list-style-type: none"> <li>o Fluent : Spring, Akka</li> <li>o Intermediate : EJB 3, CDI (JSR-299)</li> </ul> </li> <li>- Version control: Git, Mercurial, SVN, CVS, ClearCase</li> <li>- Mobile development: Android</li> <li>- Methodologies and techniques: Object-oriented analysis &amp; design, Agile software development, Scrum, Technical writing</li> <li>- Other: AWT/Swing/SwingX, Security – encryption, SSL, digital signatures, CRL, etc., J2ME, JUnit, TestNG, Selenium, Cucumber, Scalatest, jBPM, JAXB, XSL-FO, JasperReports, Ant, Maven, EhCache, memcached, RDF, Checkstyle, PMD, etc.</li> </ul> |
| Work experience | <div> <div>February 2014 – present</div> <div>TomTom (contractor)</div> </div> <div> <div>NavCloud</div> <ul style="list-style-type: none"> <li>- Cloud synchronization of navigation devices and services.</li> <li>- Technologies: Scala, akka, spray, Riak, RabbitMQ, AWS, Android</li> <li>- Role: senior developer, responsibilities covering the whole stack – through API design and implementation, Android, server-side web development and Ops work with AWS.</li> </ul> </div> <div> <div>May 2013 – February 2014</div> <div>Ontotext</div> </div> <div> <div>Dynamic Semantic Publishing</div> <ul style="list-style-type: none"> <li>- A publishing platform based on semantic and information extraction technologies.</li> <li>- Technologies: Spring, Hibernate, Maven, EhCache, Lucene, OWLIM</li> </ul> </div>   |

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|  | <ul style="list-style-type: none"> <li>- Role: developer, architect. Responsibilities ranging from day-to-day development to designing the architecture. Interfacing algorithms for information extraction and an underlying tripplestore.</li> </ul>   |
|  | <p><b>June 2010 – April 2013</b> <span style="float: right;"><b>Fish4 / TMDR</b></span></p> <p><b>fish4.co.uk</b></p> <ul style="list-style-type: none"> <li>- fish4.co.uk was a site that offers both end users and organizations the ability to upload and search for jobs, homes, lettings, cars and other vehicles, etc.</li> <li>- Technologies: Spring, Hibernate, CXF, Grails, Groovy, Ant, EhCache, Mockito, Exalead search engine</li> <li>- Role: developer. Responsibilities ranging from development and support of back-end spring, hibernate and CXF modules to front-end grails modules.</li> </ul> <p><b>Fish4 API</b></p> <ul style="list-style-type: none"> <li>- A separate project that provides an API for mobile application to fish4</li> <li>- Technologies: Spring, Spring MVC, CXF, REST, Maven</li> <li>- Role: developer and API designer. Participating in designing the API and developing the functionality.</li> </ul> <p><b>ART</b></p> <ul style="list-style-type: none"> <li>- A recruitment platform, handling around 60 job board websites.</li> <li>- Technologies: Spring, Spring MVC, Hibernate (JPA), Solr, MongoDB, RabbitMQ, JAXB, Quartz, Maven, EhCache, Terracotta, AWS (S3, EC2).</li> <li>- Role: developer. Creating and improving the base frameworks of the project; implementing business requirements.</li> </ul> <p><b>SMART</b></p> <ul style="list-style-type: none"> <li>- Website for new home developments. Data gets imported via an XML feed from multiple developers.</li> <li>- Technologies: Spring, Spring MVC, Hibernate (JPA), ElasticSearch, JAXB, Maven, Memcached, Grails, AWS (S3, EC2, ElastiCache)</li> <li>- Role: lead developer. Defining and documenting the architecture and processes; creating the base frameworks of the project; implementing business requirements.</li> </ul> |
|  | <p><b>February 2009 – May 2010</b> <span style="float: right;"><b>Materna</b></span></p> <p><b>E-services for municipalities in Bulgaria</b></p> <ul style="list-style-type: none"> <li>- E-services for municipalities, integrated with the centralized eService government portal.</li> <li>- Technologies: BMC Remedy Action Request System, Web services, JasperReports, Applets, Java security.</li> <li>- Role: integration; support</li> </ul> <p><b>eSP – eServicePlatform</b></p> <ul style="list-style-type: none"> <li>- eSP is a platform for developing E-Service for government institutions. Its purpose is to present developers with an easy and fast way to develop new E-Services by only 'drawing' the business process and creating the screens to handle the steps. Everything else - user management, administration management, security, business process tasks visualization, integration with the egov.bg portal and the centralized government middleware is provided by the platform.</li> <li>- Technologies: Spring, JSF, RichFaces, Hibernate (JPA), jBPM, JAXB, JAX-WS, Apache CXF, Java security, JasperReports, Java Applets</li> <li>- Role: Lead developer and architect.</li> </ul>   |
|  | <p><b>September 2007 – February 2009</b> <span style="float: right;"><b>SmartMinds Bulgaria</b></span></p> <p><b>Customizations of Ericsson's mobile platform for: T-Mobile USA, Claro Brazil, Telefonica Mexico</b></p>  |

- Customizing Ericsson's platform for handling prepaid calls according to telecom requirements
- Technologies: Java SE, UML, JUnit, IBM Rational ClearCase
- Role: Developer, writing code for Ericsson's mobile platform, unit and functional tests, participating in the decision-making and analysis.

#### **Proxicast**

- A Bluetooth advertising solution – sending preconfigured messages (information, ads) to Bluetooth devices in range. The local server is getting all the information from the central server. The information on the central server is configured via a web portal.
- Technologies: J2SE, Bluetooth API, WebServices (XFire), Echo2
- Role: Developer. An overhaul of the existing solution was needed and I had to: create an offline mode for the local server; enable the utilization of multiple Bluetooth devices on the server, with shared responsibilities for device detection, content push; port the communication between the local and the central server from manually handling http requests/responses, to a WebServices solution (using XFire);

#### **Bedrukt.nl:**

- A web store for clothing, with options to design the item (for ex. a T-shirt) with text and pictures. Supporting different fonts, colours, image types, positioning of elements on the T-shirt, specific pricing conditions, etc.
- Technologies: Adobe Flex, Spring framework, Spring MVC, Hibernate, Maven, AWT (graphics), XSL-FO
- Role: Team leader, developer, contacting the customer and discussing the implementation.

#### **August 2005 – August 2007**

Working for a small family company creating web sites and desktop applications.

#### **Starfight – web-based strategy game**

- Browser-based, turn-based multiplayer strategy game. Gives the players planets, fleets, navigation, inner mail system, reports, etc.
- Technologies: JSP/Servlets, JDBC, MySQL, XML, XHTML, AJAX.
- Role: Developer. I was the creator and the only developer in this project.

#### **Real Estates web-site template**

- A web site for real-estate agencies, listing all properties, providing users with search capabilities and good UI. Includes administration panel and is being synchronized with a local database, used by a desktop application of the company.
- Technologies: PHP, MySQL, JavaScript, XHTML, CSS.
- Role: Developer.

#### **Freelance**

##### **AcaciaBusinessAce**

- Acacia Business Ace is ERP+CRM like system which is designed to support small and medium size enterprises.
- Technologies: EJB3, SwingX, BeansBinding, Hibernate (JPA), Java Security, JasperReports
- Role: Developer. Actively participating in decisions about the generic basics of the application; creating multiple modules

#### **Open Source**

##### **Hector**

- Hector is the de-facto Java API for the Apache Cassandra database
- Technologies: JavaSE, Spring, Maven
- Role: committer. I contributed small amounts of code to both the general API / implementation and to the spring integration.

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|       | <p><b>Own projects</b></p> <p><b>computoser.com</b></p> <ul style="list-style-type: none"> <li>- An experimental algorithm that generates music. Based on statistics and music rules.</li> <li>- Technologies: Spring, Spring-MVC, JSP, jQuery, Maven, JMusic, AWS</li> <li>- Role: Owner, researcher, developer.</li> </ul> <p><b>welshare.com</b></p> <ul style="list-style-type: none"> <li>- Welshare is a "sharing platform". Similar to facebook and twitter, providing both social network aggregation and extra features like measuring social reputation, search, unified like button, etc.</li> <li>- Technologies: Spring, Spring MVC, JSP, jQuery, Hibernate (JPA), Hibernate-search, Lucene, Ehcache, MySQL, neo4j, Maven, JUnit, OpenID, Amazon AWS</li> <li>- Role: Owner, architect, developer.</li> </ul> <p><b>alerts.obshtestvo.bg</b></p> <ul style="list-style-type: none"> <li>- A small project for allowing citizens to get notified whenever a set of keywords appear in newly published government documents.</li> <li>- Technologies: Scala, Spring, Hibernate, Lucene, Spring-MVC, SSP, jQuery, Maven</li> <li>- Role: Owner, developer.</li> </ul> <p><b>saltedhashed.com</b></p> <ul style="list-style-type: none"> <li>- A small project for verifying the password storage mechanism of 3<sup>rd</sup> party websites.</li> <li>- Technologies: Java, Spring, Spring-data, MongoDB, Maven, OpenShift.</li> <li>- Role: Owner, developer.</li> </ul> <p><b>i-kratko.com</b></p> <ul style="list-style-type: none"> <li>- A small project for correcting a typical spelling mistake in Bulgarian. Includes a spellchecker and analysis of grammatical agreement in order to determine the proper spelling. Also includes anagram and rhyme finders.</li> <li>- Technologies: Spring, Spring-MVC, JSP, jQuery, Maven, JDO, Google App Engine</li> <li>- Role: Owner, developer.</li> </ul> <p><b>avtogara.com (not functioning)</b></p> <ul style="list-style-type: none"> <li>- On-line system that is selling bus tickets of various transport companies.</li> <li>- Technologies: Spring, JSF, RichFaces, Hibernate (JPA), JasperReports, Maven, JUnit, MyFaces orchestra</li> <li>- Role: Owner, architect, developer.</li> </ul> <p><b>Android apps</b></p> <ul style="list-style-type: none"> <li>- For the sake of getting familiar with the android SDK, I've build a couple of android apps:</li> <li>- "Dumbphone", "Who didn't call back", "Anyversary", "Computoser", "Medical Reminder", "Lolcat wallpapers" and "Vocabulary"</li> <li>- <a href="https://play.google.com/store/apps/developer?id=Bozhidar+Bozhanov">https://play.google.com/store/apps/developer?id=Bozhidar+Bozhanov</a></li> </ul> |
| Talks | <ul style="list-style-type: none"> <li>- Talks on tech conferences: Scala, The Cloud Beyond the buzzword, Computers and music, WebSockets, CDI, Spring-MVC, GWT.</li> <li>- Slides of all talks (mostly in Bulgarian) <a href="http://www.slideshare.net/Bozho">http://www.slideshare.net/Bozho</a></li> <li>- "Open source for the government" at OpenFest 2014<br/>Slides: <a href="http://www.slideshare.net/Bozho/open-source-for-the-government">http://www.slideshare.net/Bozho/open-source-for-the-government</a><br/>Talk: <a href="https://www.youtube.com/watch?v=8nq33ZBjN4">https://www.youtube.com/watch?v=8nq33ZBjN4</a> (BG)</li> <li>- "Computers, music and interdisciplinarity" at RougeConf 2013<br/>Slides: <a href="http://www.slideshare.net/Bozho/ss-18392100">http://www.slideshare.net/Bozho/ss-18392100</a> (BG)<br/>Talk: <a href="https://www.youtube.com/watch?v=2_Wu163GLSc">https://www.youtube.com/watch?v=2_Wu163GLSc</a> (BG)</li> <li>- Lecturer in the preparation camp of the Bulgarian national team for the international linguistics olympiads since 2007<br/>"Myths about linguistics" <a href="https://www.youtube.com/watch?v=f8ANIW7hBWw">https://www.youtube.com/watch?v=f8ANIW7hBWw</a> (BG)</li> </ul>   |

## CV of Bozhidar Bozhanov

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| Social activities     | <ul style="list-style-type: none"> <li>- Member of the governing council of Obshtestvo.bg (society bg) – NGO aimed at improving the communication between citizens and the government</li> <li>- Co-organizer of the “OpenSource in the government” initiative <a href="http://gov.obshtestvo.bg/">http://gov.obshtestvo.bg/</a> and the Electronic-ID initiative <a href="http://electronic-id.eu">http://electronic-id.eu</a></li> <li>- Part of the OpenData and Open Source team at Obshtestvo.bg, consulting various institutions about OpenData and Open Source and creating <a href="http://opendata.government.bg">http://opendata.government.bg</a></li> <li>- Participated in drafting the amendments to the “law for access to public information”</li> <li>- Member of an informal “e-governance” group, formed by government officials, business representatives and NGOs, aimed at improving the state of e-government in Bulgaria</li> <li>- Board member of the “Linguistics and mathematics” department of the Union of Bulgarian Mathematicians (2010-2012)</li> <li>- Member of union of leaders of olympic teams in the natural sciences (since 2014)</li> </ul> |
| Scientific work       | <ul style="list-style-type: none"> <li>- Paper: Computoser - rule-based, probability-driven algorithmic music composition <a href="https://www.academia.edu/9696759/Computoser_-_rule-based_probability-driven_algorithmic_music_composition">https://www.academia.edu/9696759/Computoser - rule-based probability-driven algorithmic music composition</a></li> <li>- Paper: Rosetta Stone Linguistic Problems, presented at an ACL workshop with Ivan Derzhanski <a href="https://www.academia.edu/5680598/Rosetta_Stone_Linguistic_Problems">https://www.academia.edu/5680598/Rosetta Stone Linguistic Problems</a></li> <li>- Member of the jury: of the Bulgarian national linguistics olympiad since 2007; of NACLO/ELCLO (North American / English Language Computational Linguistics Olympiad) since 2008; UKLO since 2012 and; IOL (International Linguistics Olympiad) since 2008; the Bulgarian national IT olympiad in 2009 and 2010.</li> <li>- Chair of the problem committee of the International Linguistics Olympiad in 2015</li> </ul>   |
| Personal achievements | <ul style="list-style-type: none"> <li>- During my school years I took part in lots of national and international contests in linguistics and information technologies where I won many top prizes, including a silver medal on the International IT olympiad.</li> <li>- In 2007 I was consultant and leader of an IT project that won 5th prize in category “Web applications” on the national IT olympiad.</li> </ul>   |
| Other                 | Blog: <a href="http://techblog.bozho.net">http://techblog.bozho.net</a> (DZone Most-Valuable-Blogger, JCG partner)<br>Stackoverflow: <a href="http://stackoverflow.com/users/203907/bozho">http://stackoverflow.com/users/203907/bozho</a> (top 30 user)<br>SO Careers CV: <a href="http://careers.stackoverflow.com/bozho">http://careers.stackoverflow.com/bozho</a><br>Web-based CV: <a href="http://bozho.net/cv/">http://bozho.net/cv/</a>  |