

Iliya Stefanov Enchev

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Relevant work experience

Feb. 13–Present	Scientific Collaborator at eXascale Infolab , led by Prof. Philippe Cudré-Mauroux, University of Fribourg, Switzerland <i>NoSQL RDF Benchmark</i> – Implementation of SPARQL with Apache Jena on top of Couchbase document database for running Berlin and DBpedia SPARQL Benchmarks on clusters of up to 16 nodes with large datasets.
Jan. 11–May. 12	<i>Project Bowlogna</i> – Transforming relational university data into RDF ontology and developing a Web visualisation for interaction with it. Developing ontology generator based on the same data. Technologies: Jena, AllegroGraph, SPARQL, JavaScript, Ajax, jQuery, Cytoscape Web.[2, 3]
Nov. 12–Feb. 13	Collaborator at DERI , Galway, Ireland, supervised by Michael Hausenblas <i>Project Spitfire, LD4Sensors</i> – Application for enriching sensor metadata and sensor observations with Linked Data. Decoupling the underlying RDF data store from the LD annotations layer, so that data can be modified by other applications, updating the REST API provided by the application.
Feb. 09–Aug. 10 projects	Junior Software Engineer , Musala Soft, Sofia, Bulgaria <i>Barracuda for Mtel</i> – The biggest mobile operator in Bulgaria, part of Mobilkom Austria Group. Integration project for substituting legacy billing and CRM systems. <i>Declaration Management System (DMS)</i> with IBM Netherlands, designed to control and administer movements of goods through Dutch Customs. <i>Content Delivery Platform</i> for Mobilkom Austria, application for entertainment content on mobile phones – games, ring tones, pictures accessible through Web or WAP interface.
responsibilities	Refactoring and testing PL/SQL procedures that extract information relevant to billing cycles and different kinds of services and subscribers and provide this information to SAP accounting system. Code design, implementation and refactoring; integration activities, close communication with team members, troubleshooting critical production issues. Main tools used: Java EE, JSF, EJB, Hibernate ORM, Oracle DB.

IT Skills

software development	Java SE/EE, JSP, JSF, Servlets, Hibernate, JavaScript, JSON, Ajax, jQuery, Web Services, Oracle DB, SQL, PL/SQL, Apache Cassandra, Couchbase, MapReduce, RDF, Apache Jena, SPARQL, Linux
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certification	Sun Certified Programmer for the Java Platform, Standard Edition 6 Sun Certified Business Component Developer for the Java EE 5
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Education

Master's thesis description	Unconventional Store Systems for RDF Data Overview of some main points of the Web, Semantic Web and Linked Data. Presenting a number of registry systems that handle data broadly generalized as entities with identifiers – DNS, DOA, ENS, Chord DHT and CoralCDN. Comparison of four data storage solutions – AllegroGraph, Open Chord, Apache Cassandra, MySQL in their ability to handle RDF entities, using a benchmarking suite developed in Java.[1]
Sep. 10–Oct. 12	MSc in Computer Science , Swiss Joint Master of Science in Computer Science, Universities of Fribourg, Bern and Neuchâtel, Switzerland
emphasis	Software Engineering – several courses and three projects based on GWT, Google maps API, SOAP, REST, MongoDB, Django; Agile Methodologies; Data Management, Ubiquitous computing; Distributed Systems; Concurrent programming.
2005–2009	BSc in Computer Science , German Engineering Faculty of the Technical University of Sofia, Bulgaria
Mar. 08–Aug. 08	Erasmus exchange student , Karlsruhe Institute of Technology – KIT, Germany

Languages

Bulgarian	Mother tongue
English	Excellent (Certificate in Advanced English – CAE) C1
German	Excellent (DSH-Deutsche Sprachprüfung für den Hochschulzugang) C1
French	Intermediate B1
Russian	Basic A2

Miscellaneous

leisure	Socialising with friends/colleagues; cycling all sorts of bikes; swimming; playing a Bulgarian folk instrument – gadulka; travelling locally and abroad; cooking
driving licence	A+B since 2004

Publications

- [1] P. Cudré-Mauroux, G. Demartini, I. Enchev, C. Guéret, and B. Perroud. Downscaling entity registries for ad-hoc environments. In *First International Workshop on Downscaling the Semantic Web co-located with the 9th Extended Semantic Web conference, Heraklion, Greece, May 2012*.
- [2] G. Demartini, I. Enchev, J. Gapany, and P. Cudré-Mauroux. Bowlognabench–benchmarking rdf analytics. In *First International Symposium on Data-driven Process Discovery and Analysis (SIMPDA 2011), Campione d'Italia, Italy, pages 29–43, June 2011*.
- [3] G. Demartini, I. Enchev, J. Gapany, P. Cudré-Mauroux, and Agarwal. The bowlogna ontology: Fostering open curricula and agile knowledge bases for europe's higher education landscape. *Semantic Web – Interoperability, Usability, Applicability*, 2012.