Iliya Stefanov Enchev

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Nationality: Bulgarian
Born: 29.03.1986

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Objective

After finishing my Master studies I took up the opportunity to work for a little while in the academic world, focusing on the Semantic Web and Linked Data. Now I am looking for a challenging long-term assignment, where I can pursue my interests in Software Engineering, Linked Data and Distributed Database Systems, and contribute with my practical knowledge, theoretical and analytical skills, and diverse international experience. For this reason I am applying as a Junior BIG DATA Engineer at ncx, Lausanne.

Relevant work experience

Feb. 13–May 13	**Scientific Collaborator at eXascale Infolab**, led by Prof. Philippe Cudré-Mauroux, University of Fribourg, Switzerland *NoSQL RDF Benchmark* – 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	*Project Bowlogna* – Transforming relational university data into RDF ontology and developing a Web visualization 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 *Project Spitfire, LD4Sensors* – 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 *Barracuda for Mtel* – The biggest mobile operator in Bulgaria, part of Mobilkom Austria Group. Integration project for substituting legacy billingand CRM systems. *Declaration Management System (DMS)* with IBM Netherlands, designed to control and administer movements of goods through Dutch Customs. *Content Delivery Platform* for Mobilkom Austria, application for mobile entertainment content – 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
certification	Sun Certified Programmer for the Java Platform, Standard Edition 6 Sun Certified Business Component Developer for the Java EE 5

Education

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.
Master's thesis	**Unconventional Store Systems for RDF Data**
description	Overview on main points of the Web, Semantic Web and Linked Data. Analysis and performance comparison of data store and entity registry systems – DNS, DOA, ENS, Chord DHT, CoralCDN, AllegroGraph, Apache Cassandra and MySQL in their ability to handle RDF entities, using own Java benchmarking suite.[1]
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 C1 – Certificate in Advanced English – CAE; working in the USA and Ireland
German	Excellent C1 – DSH-Deutsche Sprachprüfung für den Hochschulzugang; one term exchange in Germany; bachelor studies in German
French	Intermediate B1 – evening courses and courses at university, experience in CH
Russian	Basic A2 – second foreign language at secondary school

Miscellaneous

leisure	Cycling; swimming; playing a Bulgarian folk instrument – gadulka; travelling; cooking
driving license	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.