Iliya Stefanov Enchev

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Born: 29.03.1986

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Relevant work experience

ELCA Bern **DWH/ETL Developer** Jun. 14–Jul.15	*Consultant by CFF* with several ETL projects. Developed a Java application for auto–mated Workflow generation for Host DB2 to Oracle migration together with scripts for DDL generation, workflow loading and running; projects with bitemporal, analytical and hierarchical queries; administration of ETL environment.
Acquired knowledge	PowerCenter ecosystem, DWH/ETL, Oracle SQL, Unix, Bash, Java, Maven, Regex.
Software Engineer Oct. 13–May 14	*ASTRA Road Traffic Management* – Developed new features - from web service con–sumption or DB access up the stack to the UI. Applied a JavaScript library for time series visualization, bug fixing and performance testing. Java, GWTP, GXT, Hibernate, Spring, Maven, Continuous Integration (Jenkins), Junit.
eXascale Infolab by Prof. Cudré-Mauroux **Scientific** **Collaborator** Jan. 11–May 13	*NoSQL RDF Benchmark* – Implemented a SPARQL endpoint using Apache Jena and a document database for running benchmark tests on clusters of up to 16 nodes. [2] *Project Bowlogna* – Transformed relational university data into RDF ontology and developed a web visualization for interaction with it. Developed ontology generator based on the same data. [3, 4] Java, CouchBase, Unix, SPARQL, Hibernate, AllegroGraph, JavaScript, Ajax, jQuery, collaborative scientific writing.
DERI, Ireland **Intern** Nov. 12–Feb. 13	*Project Spitfire, LD4Sensors* – IOT application for enriching sensor observations and metadata with Linked Data. Decoupled the underlying RDF store from the Linked Data annotations layer, so data can be modified by other applications, improved the application's REST API. Linked Data, Java, Git, Maven
Musala Soft, Bulgaria **Junior Software** **Engineer** Feb. 09–Aug. 10	Two Java EE Projects focused on development and testing. One data integration project focused on SQL, PL/SQL, refactoring. Java EE, Hibernate, Oracle DB, SQL, JSF, EJB 3.0, Web Services, Agile Methodolo–gies, communication in large distributed teams. SCJP Certificate.

Education

BeNeFri **MSc in Computer Science** Sep. 10–Oct. 12	Master's thesis: **Unconventional Store Systems for RDF Data**, 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, Cassandra and MySQL in their ability to handle RDF entities, using own Java benchmarking suite.[1] During studies: emphasis on Software Engineering – several courses on Concurrent programming, Agile Methodologies, Data Management, Ubiquitous computing, Distributed Systems, User Centered Desing; three projects based on GWT, Google maps API, SOAP, REST, MongoDB.
BSc in Computer Science 2005–2009 Mar. 08–Aug. 08	German Engineering Faculty of the Technical University of Sofia, Bulgaria; courses taught in German Erasmus exchange student, Karlsruhe Institute of Technology – KIT, Germany
Languages	Bulgarian, English, German, French, Russian

Miscellaneous

Leisure	Cycling, singing, vietnamese martial arts, travelling, cooking, Drupal website
Driver's 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] P. Cudré-Mauroux, I. Enchev, S. Fundatureanu, P. Groth, A. Haque, A. Harth, F. Keppmann, D. Miranker, J. Sequeda, and M. Wylot. Nosql databases for rdf: An empirical evaluation. In *The Semantic Web – ISWC 2013*, volume 8219 of *Lecture Notes in Computer Science*, pages 310–325. Springer Berlin Heidelberg, 2013.

[3] 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.

[4] 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.