
Experience

- April 2013–Present **R&D Software Engineer**, EAU DE WEB, Bucharest, Romania.
Projects:
• **Eurean Environmental Agency (EEA) Website Services**
Responsibilities:
- build a new Advanced Search tool for the EEA website (<http://www.eea.europa.eu>), synchronized with a SPARQL endpoint, to support queries on linked data
- develop a river plugin for ElasticSearch to harvest data from the EEA endpoint
Keywords: Semantic Web, Linked Data, RDF, SPARQL, Virtuoso, ElasticSearch, Open Data, Big Data, JAVA, Jena
• **State of the Environment Reporting Information System (SERIS)**
Responsibilities: develop a semantically relevant mapping to convert the SERIS database (PostgreSQL) to RDF using relevant W3C recommended namespaces
Keywords: Semantic Web, RDF, PostgreSQL, Python
• **Digital Agenda Scoreboard**
Responsibilities: configure the Elda semantic web browser for the data
Keywords: Semantic Web, RDF, SPARQL, Open Data, Virtuoso, Java EE
- Oct 2008–Sept 2013 **Associate Teaching Assistant**, POLITEHNICA UNIVERSITY OF BUCHAREST, Bucharest, Romania.
Courses: Algorithm Analysis (2008-2009, 2010-2013), Algorithm Design (2008-2009, 2010-2011, 2012-2013), Algorithm Design and Complexity (2012-2013), Computer Programming (2012-2013), Programming Paradigms (2010-2011)
Responsibilities:
- teach seminars
- evaluate students
- propose homework and exercises for exams
- Jul 2012–Sept 2012 **Summer Student**, CERN, Geneva, Switzerland.
Keywords: JavaScript, C++, ROOT, Graphics.
Purpose: - offer a portable way to monitor or inspect ROOT files on mobile devices.
Responsibilities:
- adapt a JavaScript library to ROOT's specification needs for 1D, 2D and 3D.
- attend Particle Physics lectures, seminars and demonstrations.
- Jul 2011–Sep 2011 **Intern**, SEMSOFT, Rennes, France.
Keywords: Complex Data Reconciliation, Java, Knowledge Representation, Natural Language Processing, Normalization, RDFS, OWL, SPARQL.
Responsibilities:
- design a representation for SPARQL queries (disjunctive form).
- design algorithms to normalize existing SPARQL queries.
- create a reconciliation module for multiple databases (RDFS+) and algorithms for text, numbers and complex data reconciliation.

Education

- 2011–2012 **Master 2 Recherche - Extraction des Connaissances à partir des Données**, *Université Lumière (Lyon II)*, Lyon, France.
Thesis: **Machine Learning Techniques for Classifying Forum Messages**
- 2010–2013 **Master of Science in Artificial Intelligence**, *POLITEHNICA University of Bucharest*, Bucharest, Romania.
Thesis: **An Operational Model of Emotions for 2APL Agents**
- 2006–2010 **Bachelor in Computer Science**, *POLITEHNICA University of Bucharest*, Bucharest, Romania.
Thesis: **A Rule-based System for Evaluating Students' Participation to a Forum**

Publications

- 2011 **I. Paşov, Şt. Trăuşan-Matu, and T. Rebedea**, *A rule-based system for evaluating students' participation to a forum*, First International K-Teams Workshop on Semantic and Collaborative Technologies for the Web, Bucharest, Romania.
- 2011 **I. Paşov, Şt. Trăuşan-Matu, and T. Rebedea**, *A System for the Evaluation of the Participation of a Student to a Discussion Forum*, Journal of Human-Computer Interaction, Bucharest, Romania.

Skills

Languages.

- Proficient JAVA, C++, RDF, XML
- Prior experience C, C#, PYTHON, JAVASCRIPT, PROLOG, SCHEME, R

Databases.

- Proficient VIRTUOSO
- Prior experience MYSQL

Tools.

- Proficient GIT, ELASTICSEARCH
- Prior Experience SUBVERSION, VIRTUALENV, JENKINS, WEKA, ELASTICSEARCH, JENA, RDFLIB, ELDA, JQUERY, DJANGO, ZOPE

Languages

- Romanian **Native proficiency**
- English **Bilingual proficiency**
- French **Limited working proficiency**

Cambridge CAE Certificate

Interests

- Artificial Intelligence
- Affective Computing
- Game Theory
- Data Analysis
- Natural Language Processing and Understanding
- Algorithms
- Machine Learning
- Semantic Web
- Information Retrieval

Updated

February 23rd, 2014