

---

## Experience

- April 2013–Present **R&D Software Engineer**, EAU DE WEB, Bucharest, Romania.  
Projects:  
• **European 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. Trăușan-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. Trăușan-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 23<sup>rd</sup>, 2014