
Experience

December 2014–present **Big Data & MACHine Learning Engineer**, AVIRA SOFT, Bucharest, Romania.
Data Science Team

Responsibilities:

- data acquisition, data preparation, data analysis
- building and implementing models from data
- using data models to classify data or predict behaviors

Keywords: Machine Learning, Data Mining, Big Data, Data Science, Natural Language Processing, Hadoop, Spark, Hive, Couchbase, Scala, Python

April 2013–December 2014 **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 PYTHON, SCALA
- Prior experience JAVA, C, C#, C++, JAVASCRIPT, R, PROLOG, SCHEME, RDF

Databases & Data Warehouses.

- Proficient VIRTUOSO, HIVE
- Prior experience MYSQL, MONGODB, COUCHBASE

Tools.

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

Languages

- Romanian **Native proficiency**
- English **Bilingual proficiency** *Cambridge CAE Certificate*
- French **Limited working proficiency**

Interests

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

Updated

June 11th, 2015