

CURRICULUM VITAE

Spyros Zoupanos

Senior Software Engineer Team Lead, PhD, PM²

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PROFESSIONAL EXPERIENCE

- 5/2019 - present **Senior Software Engineer Team Lead**
Independent Authority for Public Revenue (IAPR), Athens, Greece
- Development of financial internet applications (user interface, backend, data management and analysis)
 - Reorganization of the software development process of IAPR (continuous integration and continuous delivery)
 - Supervision and training of a team of 4 developers on full stack development of financial applications
- Technologies: AngularJS, Javascript, (REST) Web Services, Java 8, Oracle Database, SQL, PL/SQL Git, Docker, Continuous Integration, Continuous Delivery*
- 5/2021 - present **Senior Researcher (Part-time)**
Ionian University, Corfu, Greece
- Research on natural language processing (NLP) problems and machine learning problems on mobile networks
- 1/2020 - 1/2021 **Senior Researcher (Part-time)**
Athena Research Center (ARC), Athens, Greece
- Research and development on an Open Science platform
 - Data analysis and data organization
- Technologies: Hive, Apache Impala, Java*
- 5/2019 - 7/2020 **Collaborating researcher (Part-time)**
École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
- Research and development on an Open Science platform
- 6/2015 - 5/2019 **Software Engineer & Senior Researcher**
École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
- Development of a large scale Open Science platform:
 - Platform for large scale of simulation management and automation, provenance tracking and analysis (<http://www.aida.net>)
 - Dissemination portal and cloud simulation platform (<https://www.materialscloud.org>)
 - Data management and system scalability
 - Resolution of software engineering problems
 - Student supervision and workshop organization
- Technologies: Python 2.7/3.5, SQLAlchemy, Django, PostgreSQL, Web Services, Javascript*
- 7/2014 - 6/2015 **Software Engineer (Single sign-on project manager)**
Max-Planck-Institut für Physik, Munich, Germany

- Management and implementation of the single sign-on project (infrastructure enabling users securely authenticate with multiple services and computers by logging in only once)
- Analysis of Institute's needs
- Design and execution of the migration to the new authentication mechanism

Technologies: *Kerberos, LDAP, NFS, Active Directory, Samba, Linux, Windows*

10/2012 - 7/2014

Senior Developer

Quartet Financial Systems, Paris, France

- Development of a multidimensional in-memory database for real time analysis of financial data
- Proposal of efficient solutions to open problems
- Redesign of system parts to match new updated needs
- Analysis and documentation of complex parts of the platform
- Connection between academia and industry and platform adjustment to client needs

Technologies: *Java 8 core and Web services*

9/2010 - 9/2012

Postdoctoral Researcher

Max-Planck-Institut für Informatik, Saarbrücken, Germany

- Research on the domain of data analysis and knowledge extraction from large document collections
- Analysis of journal articles by extracting useful information categorised in certain relations
- Extraction of frequent word sequences (with gap) from big document sets. Development and optimization of distributed (MapReduce) algorithms
- Research results presented in top-tier international conferences

Technologies: *Java 7, MapReduce, Hadoop, HBase, HDFS.*

12/2009 - 9/2010

Postdoctoral collaborator

INRIA-Saclay-Ile de France, Orsay, France

- Research on the domain of data management and query rewriting
- Development of an XML data warehouse system supporting XQuery query rewriting with the use of materialized views

9/2009 - 9/2010

Teaching assistant (Part-time)

Université Paris 9 (Dauphine), Paris, France

- Undergraduate and postgraduate courses on Java programming, databases and semistructured data:
 - Lectures, student workshops, supervising exercises

EDUCATION

10/2006 - 12/2009 **Ph. D. in Data Management & XML Query Rewriting**

INRIA-Futurs (Gemo Team), Orsay, France

Thesis title: *Efficient peer-to-peer data management* (Excellent with Honors) - Supervisors: *Prof. S. Abiteboul and Prof. I. Manolescu*

- Co-supervision of interns and software engineers
- Research results presented in top-tier international conferences

Technologies: *Java core and Web services, XML, XQuery, XPath, XSLT, bash scripting*

10/2004 - 10/2006 **M.Sc. in Advanced Information Systems**

Department of Computer Science & Telecommunications, National University of Athens, Greece

Thesis title: *Optimizing queries using materialized views* (GPA: 8.66/10) - Supervisor: *Prof. A. Delis*

Technologies: *C++, QT for the GUI*

10/2000 - 10/2004 **B.Sc. Computer Science & Telecommunications**

National University of Athens, Greece

Thesis title: *Performance Measuring Tool for Database Systems* (GPA: 7.79/10) - Supervisor: *Prof. Y. Ioannidis*

Technologies: *HTML, Javascript, Oracle database*

OTHER ACTIVITIES

- Teaching Semistructured data (XML, XSLT, XPath, XQuery), Java programming, Information management on the Web, Database systems, Relational databases, Theory of Computation at undergraduate and postgraduate level in Paris (France) and Athens (Greece)
- Participated in national (French, Swiss) and european projects: Preparing and reviewing scientific reports, participating in workshops, research and development within the projects' domain
- Reviewer and external reviewer of international journals and conferences

LANGUAGE SKILLS

- Greek (native speaker)
- English (proficient)
- French (advanced)