



Athanassios I. Hatzis

Curriculum Vitae

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PROFILE

Athanassios I. Hatzis has been active in the field of databases and semantic web since the resurgence of the NoSQL movement (2009). He pioneered associative, semiotic, hypergraph technology and based on this he designed and implemented a prototype, TRIADB self-service data management and analytics development framework. He also founded HEALIS, to offer consultation services and training in the emerging field of data science and the use of next generation business intelligence systems and software applications.

In the past Athanassios has been a Health IT Managing Director in the Department of Neurosurgery, at Evangelismos Hospital for four years. He assured 250k€ funds in three years period for the Hellenic Neurosurgical Research Centre and he modernized the hospital clinic with a fully operational EMR, clinical decision support systems, surgical teleconferencing and out-of-hospital clinical monitoring.

Besides his business development Athanassios has a strong background in academic and scientific research. He was a research associate for a period of ten years in top UK universities and he initiated UK NHS (275k€-3years) and EC QoL FP5 (2,7M€-3years) funded research projects that were based on his PhD thesis.

He has published both in Speech Technology and Neurotechnology sectors in peer reviewed journals and conferences, he posts articles frequently in several IT blogs and social networks and he has released three open-source projects at GitHub MEDILIG EMR, Wolfram Mathematica DBAPI and TRIADB.

Work Experience				
A. Industry Experience:				
Employer	Position	Duration		
		From	Until	
1. HEALIS – Healthy Information Systems/Services, Athens, Greece	Founder / Freelancer	September 2009	---	
2. Dept. of Neurosurgery, Evangelismos General Hospital, Athens, Greece	Health Informatics Manager	September 2005	April 2009	
3. Dept. of Computer Science, The University of Sheffield, Sheffield, U.K	Research Associate	October 1995	September 2004	
B. Teaching Experience:				
Organization	Topics / Subjects	Duration		
		From	Until	
1. American University of Athens – Athens, Greece	Pascal, C++, Numerical methods for engineers, Introduction to AI	October 2004	June 2005	Full Time
2. The University of Sheffield – Sheffield, U.K	MATLAB, Artificial Neural Networks, Expert Systems, Lisp, Prolog	October 2000	September 2004	Full Time
3. IST College – Athens, Greece	Introduction to AI, C++ Microsoft Office	October 1999	September 2000	Full Time

Technical Expertise

Field	Topics
1. Software Engineering/Development	Information Management, Data Analysis, Data Structures, Artificial/Business/Augmented Intelligence
2. Databases	Relational, Columnar, Document, Key/Value, Graph, Object Oriented, Data Modeling, Storage Engines
3. Health Information Management	Health Care Decision-Making, EHR/EMR, HealthCare Standards (openEHR, HL7, FHIR, CDA, CCR)
4. Speech Technology	Alternative/Augmentative Communication, Speech Therapy, Speech Recognition/Synthesis
Software Skills	Tools & Technologies
1. Programming Languages	Python, Wolfram Language, Visual Basic, Visual C++, Tcl/Tk, Python, Java, Lisp, Prolog
2. Analytics	Pandas, Qlikview, Tableau, Mathematica, Microsoft Excel, Matlab, Wandora
3. Database Management Systems	ClickHouse, MemSQL, kdb+, MariaDB/MySQL, Intersystems Cache, MSQ/Access, Oracle, Neo4J, GraphDB, Redis, ElasticSearch, MongoDB, OrientDB, Arrango
4. Semantic Web	Collaborative Knowledge Bases, RDF/OWL, SPARQL, JSONLD, XML, Ontologies, Topic Maps
5. Operating Systems	Linux, Windows
6. Speech-Signal processing	Wavesurfer/Snack, HTK, SFS, Praat, Cool Edit, Wavelab, LabTutor

Qualifications

A. Educational Qualifications:				
Organization	Duration		Subject	Degree
	From	Until		
1. The University of Sheffield, Department of Computer Science, Sheffield, U.K	September 1995	September 1999	Speech Technology	Doctorate (PhD)
2. The University of Edinburgh, Dept. of Artificial Intelligence, Edinburgh, U.K	September 1994	September 1995	Artificial Intelligence – Knowledge Based Systems	Master (MSc)
3. The American University of Athens, Department of Computer Science, Athens, Greece	September 1989	June 1993	Computer Science	Bachelor (BSc) (3.23 / 4.0)
B. Artistic Skills:				
Music School	Duration		Subject	Degree
	From	Until		
1. Byzantine music school of Glyfada Diocese, Athens, Greece	September 2006	September 2009	Byzantine Music	Diploma (Grade Excellent)
2. Piano music school of Tzenny Protopapa, Athens, Greece	September 1980	July 1994	Classical Piano Performance	Diploma (Grade - Excellent)

Publications

Journals (4), Book Chapters (1), Conference Proceedings (9), Conference Presentations (6)

Military Service

Force	Specialty	From	Until
1. Greek Navy - Kanaris destroyer, Souda base and Salamina base	Electronic Fire Commander	January 1992	October 1992
2. Greek Navy - Greek Naval Academy	First Year Naval Cadet	September 1988	August 1989