

PERSONAL INFORMATION

Surname(s) / First name(s) **HATZIS Athanassios**
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 Nationality(-ies) Greek
 Date of birth 17th October 1969
 Gender Male

WORK EXPERIENCE

Name and address of employer **HEALIS.EU, Athens, Greece**
 Type of business or sector **Information Technology**
 Dates **September 2009 – Present**
 Occupation or position held **Self-employed / Independent Contractor**
 Main activities and responsibilities

- 2023 – 2024 (*IT & e-shop Manager – STARBOOKS*)
 - ❖ Liaising with the ERP and website vendor to address any technical issues, communicate business requirements and identify opportunities for improvement and optimization.
 - ❖ Ensuring the accuracy and integrity of data entered into the system, as well as generating reports and analytics to provide insights into various aspects of the retail business
- 2020 - 2023 (*Marathon Events Management - Bank of America*)
 - ❖ Agile development of a back-end system to manage human, inventory, medical and travel resources
 - ❖ Monitoring, optimisation and testing of micro-services and databases
 - ❖ Real-time data storage management (weather, race density, aid stations, GPS units) from internal and external providers
 - ❖ Automation of scheduled tasks (cron triggered events)
 - ❖ Serverless cloud deployment and security operations
 - ❖ Problem and incident management during the operation of the system
 - ❖ Defining, controlling and improving software life cycle processes
- 2017 - 2020 (*API and Front-End development for small clients/projects*)
 - ❖ Authentication and authorization
 - ❖ Restful and GraphQL services
 - ❖ Dynamic web applications in Svelte and Plotly/Dash
- 2014 - 2017 (*Startup ventures*)
 - ❖ *Research in databases and knowledge management systems*
 - ❖ *Pioneered associative, semiotic, hypergraph technology for semantic web*
 - ❖ *Implemented a data management and interactive visual analytics development framework*
 - ❖ *Modelling and computational analysis of systems in Wolfram Mathematica*
 - ❖ *Teaching ECDL courses at IEK ALPHA XINI, Piraeus Branch (2014)*
- 2010 - 2013 (*HIT-EHR solutions for medical doctors*)
 - ❖ *Medical Reports and Analytics from Microsoft Access and MSQl server*
 - ❖ *Distribution and support of MEDILIG (Medical Life-Guard) EHR software*
 - ❖ *Static personal web sites*

Name and address of employer **Hellenic Neurosurgical Research Centre -Evangelismos General Hospital, Athens, Greece**
 Type of business or sector **Dept. of Neurosurgery, University of Athens / School of Medicine**
 Dates **September 2005 – April 2009**

<p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>Health Informatics Manager / Research Associate</p> <ul style="list-style-type: none"> • Facilities and IT infrastructure management (two Windows server networks and twenty stations) in the research lab, the hospital clinic and at the surgical operating room • Designed and implemented a customised electronic medical record (EMR) and several clinical information systems for the medical staff • Monitoring/report system for patients and executive reports to the doctors of the clinic • Responsible for overseeing network and database security policy and the support of users • Managed trusted, secure remote access to the clinic from the research centre and out-of-hospital with MPLS-VPN technology • Organized equipment and services for surgical teleconferencing and advanced neuromodulation courses • Published papers as an author in research journals and presented at conferences
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>American University of Athens – Athens, Greece</p> <p>Higher education institution – Dept. Computer Science</p> <p>October 2004 – June 2005</p> <p>Lecturer</p> <ul style="list-style-type: none"> • Teaching Pascal, C++, Numerical methods for engineers and introduction to AI
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>The University of Sheffield – Sheffield, U.K – Speech Technology Group</p> <p>Higher education institution – Dept. Computer Science (Research Grade 5/5)</p> <p>September 2000 – September 2004</p> <p>Post-doctorate Research Associate</p> <ul style="list-style-type: none"> • Work-package leader, initiator, and central figure of OLP (Ortho-Logo-Paedia), European Community, Quality of Life, FP5 funded research project • Principal Investigator of STARDUST (Speech Recognition for People with Severe Dysarthria), UK NHS-NEAT funded research project • Published papers as an author in research journals and presented at conferences • Lab supervisor for undergraduate students in Lisp, Prolog and C++ courses
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>IST College, Athens, Greece (Affiliated with University of Hertfordshire)</p> <p>Higher education institution – Dept. Computer Science</p> <p>October 1999 – June 2000</p> <p>Lecturer</p> <ul style="list-style-type: none"> • Teaching databases, C++ and Microsoft Office to undergraduate student
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>Barnsley College, Barnsley, U.K</p> <p>Higher education institution</p> <p>December 1995 – December 1996</p> <p>IT analyst and instructor in computer labs</p> <ul style="list-style-type: none"> • Preparing technical reports and evaluation for management with data analysis in Excel • Teaching Microsoft Office in computer labs
<p>Name and address of employer</p> <p>Type of business or sector</p> <p>Dates</p> <p>Occupation or position held</p>	<p>Eurolingua Cararigas - Athens, Greece</p> <p>Foreign languages private institution – IT sector</p> <p>October 1993 – September 1994</p> <p>Assistant to IT Manager – Instructor</p>

MILITARY SERVICE

Dates **January 1992 – October 1992**
 Force Greek Navy – Kanaris destroyer, Souda base, Salamina base

Dates **September 1988 – July 1989**
 Force Greek Navy – Greek Naval Academy

EDUCATION AND TRAINING

Dates **September 1995 – September 1999**
 Title of qualification awarded Doctorate (PhD) / Speech Technology
 Name and type of organisation The University of Sheffield, Department of Computer Science, Sheffield, U.K

Dates **September 1994 - September 1995**
 Title of qualification awarded Master (MSc) / Artificial Intelligence – Knowledge Based Systems
 Name and type of organisation The University of Edinburgh, Department of Artificial Intelligence, Edinburgh, U.K

Dates **September 1989 – Ιούλιος 1993**
 Title of qualification awarded Bachelor (BSc) / Computer Science (3.23 / 4.0)
 Name and type of organisation The American University of Athens, Department of Computer Science

Dates **September 1981 – September 1987**
 Title of qualification awarded High School Certificate / (17.6 / 20)
 Name and type of organisation 2nd Lyceum of Paleo Phaliro, Paleo Phaliro, Athens, Greece

Dates **September 2006 – September 2009**
 Title of qualification awarded Byzantine Music Diploma (Grade - Excellent)
 Name and type of organisation Byzantine music school of Glyfada Diocese, Athens, Greece

Dates **September 1980 – September 1994**
 Title of qualification awarded Classical Piano Performance Diploma (Grade - Excellent)
 Name and type of organisation Piano music school of Tzenny Protopapa, Athens, Greece

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

Self-assessment

Common European CEFR level

English

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2 Proficient user	C2 Proficient user	C1 Proficient user	C1 Proficient user	C2	Proficient user

Social and Communication Skills and Competences

Over the past twenty years and more, I have had the opportunity to develop and cultivate the following skills & competences with reference to European Commission ESCO Framework:

- Methodical leadership and delegation of responsibilities gained as an IT Work Package Manager in EC FP5 and as a Health Informatics Manager at Dept. of Neurosurgery, Univ. of Athens
- Communicating, collaborating, liaising, and negotiating effectively with speech therapists, medical staff, development teams, board members, team members, project managers, third party providers and vendors, IT support, students and lecturers
- Fostering creative and innovative thinking as a collaborative team member within start-up ventures, designing data models and organizing data structures to represent information.

- Safeguarding privacy and personal data, adhering to regulations and maintaining a commitment to ethical practices with integrity in the realm of healthcare and medical information.
- Demonstrate analytic thinking, proactive problem solving, resourcefulness and perseverance in the role of senior software engineer / architect at major USA marathon events
- Best practices and legal requirements for IT security compliances, ensuring confidentiality, integrity and availability (CIA, HIPAA and GDPR) in several positions

Organisational / managerial skills

The following skills showcase a strategic mind-set, adept at making trade-off decisions considering desirability, viability, and technical feasibility, all while consistently delivering high-level execution performance.

- Managing facilities and IT infrastructure, developing objectives and strategies, organising work activities, allocating and controlling resources, and leading, motivating, recruiting and supervising people as a Health Informatics Manager at Evangelismos General Hospital, one of the largest public hospitals in Greece.
- Planning, estimating and executing development work; establishing, deploying and securely operating back-end systems and services across their full software life cycle in my role as a senior software engineer / architect at major USA marathon events
- Providing regular updates and progress reports, facilitating collaboration among research institutions and industry partners, developing a comprehensive project plan, outlining research objectives, timelines, and milestones as an IT WP leader in EC FP7 program.

DIGITAL COMPETENCE

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Proficient User	Proficient User	Proficient User

Tools & Technical skills

Front-End Development

Svelte/SvelteKit, Typescript, HTML, CSS, Plotly/Dash

Back-End Development

RESTful APIs (FastAPI in Python, Svelte in Typescript), GraphQL (Hasura), Postman

Database Management

Query languages: SQL, SPARQL, GraphQL, Datalog
 DBMS: Postgres, MSQl Server, MSAccess, Oracle, ClickHouse, SingleStore, kdb+, Intersystems Cache, Datomic, XTDB, Neo4J, GraphDB, Redis, ElasticSearch, MongoDB

Information/Knowledge Management

Microsoft Planner, Obsidian, Logseq, WikiData, DBPedia, DokuWiki, MediaWiki, Wandora

Programming

Python, Typescript, Clojure, Wolfram Language, C++, Visual Basic for Applications, Tcl/Tk, Prolog

Deployment and Operating Systems Administration

Deployment: Azure Cloud, Vercel, Virtual machines, Docker, GitHub
 Operating Systems: Linux Ubuntu, Windows – WSL2

Data Analysis and Business Intelligence

Qlik, Tableau, Microsoft BI and Excel, Pandas, NumPy, SciKit, PyTorch, Keras, TensorFlow, Matlab

Artificial Intelligence (NLP – Image Processing – Speech Recognition)

NLTK, spaCy, OpenCV, MediaPipe, Whisper

Technical standards

HealthCare Standards (openEHR, HL7, FHIR, CDA, CCR)
 Semantic Web Standards (RDF, OWL, SPARQL, JSON-LD, SKOS)

ADDITIONAL INFORMATION

Professional memberships

Member of International Neuromodulation Society – 2007
 Member of British Computer Society (BCS) – 2004
 Member of International Speech Communication Association – 2003

Awards/Honors

From the Greek public health minister for the organization of advanced neuromodulation courses based on IT/technology infrastructure at Evangelismos Hospital, Neurosurgery Clinic
 Scientific poster award, based on statistical analysis of data from spasticity database, in the 16th EU Congress of Phys. & Rehab. Medicine

Research Projects

Title Objective Funding body Budget – Duration	<p>STARDUST - Speech Recognition for People with Severe Dysarthria Voice activated environmental control devices for persons with disability (NEAT) Program - National Health Service (NHS), U.K 275,000 euro – 3 years from 2000 to 2003</p>
Title Objective Funding body Budget - Duration	<p>OLP (Ortho-Logo-Paedia) Educational software for a medical information system that supplements speech therapy Quality of Life and Management of Living Resources, 5th Framework European Program, EC 2,670,000 euro – 3 years from 2001 to 2004</p>
Title Objective Funding body Budget - Duration	<p>NeuroHealis Electronic medical record (EMR) and clinical information systems in neurosurgery Dept. of Neurosurgery, University of Athens, Vodafone, Kokkalis Foundation 250000€ euro – 3 years from 2006 -2009</p>

Open Source Projects

Title Repository	Hypermorph – Python API for information management and data transformations-analytics https://github.com/healiseu/hypermorph
Title Repository	TRIADB - Self-Service Data Management & Visual Interactive Analytics Framework https://github.com/healiseu/triadb
Title Repository	Intersystems Cache Object-Relational Mapper based on Intersystems Python Binding module. https://github.com/healiseu/IntersystemsCacheORM
Title Repository	MEDILIG - EHR/EMR cross-platform software https://sourceforge.net/projects/medilig/

Professional Certificates

Microsoft Training Certificate Microsoft Gold Certified (i-Learn)	15/6/2009 - Microsoft SQL Server Database (80h) 15/6/2009 - Microsoft Visual Studio (Core Data Access, Core Web Applications) (50h)
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Publications – Presentations – Blog Posts

WWW references	https://athanassios.gr/el/publications/ , https://healis.eu/en/talk/ Journal publications (4) Book Chapters (1) Publications in conference proceedings (9) Conference presentations (9) Technical Blog Posts (39) - https://healis.eu/en/post/
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