PANAGIOTIS (PANOS) MITZIAS

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LinkedIn | Twitter | GitHub | Google Scholar

SUMMARY

A passionate software & knowledge engineer and an eager advocate for semantic technologies, with 8 years of work experience in diverse domains and contributions to Open Source. Via a long series of R&D projects, I have acquired an elaborate expertise in complex system architectures related to knowledge engineering and semantics. As a result, I have developed a critical skill set in the application of semantic technologies, knowledge graphs, linked data, semantic reasoning, and natural language processing.

EXPERIENCE HIGHLIGHTS

03/2020 - Now **Senior Software Engineer / Research Associate**, Inst. for Bio-Economy & Agri-Technology, Greece

- Leading the design and development of Circular Manufacturing domain ontology for KYKLOS 4.0 project.
- Deployment of semantic infrastructure (RDF triplestore) and implementation of ETL processes and APIs. [Python, Protégé, OntoText GraphDB, RDF/XML, NT, TTL, OWL, SPARQL, Swagger].

11/2019 - Now **Senior Software & Knowledge Engineer**, Catalink Ltd, Cyprus

- Ontology modelling in close collaboration with end-users [NeOn methodology, Competency Questions, RDF, OWL, TTL, NT, OWL, Protégé, TopBraid Composer, PlantUML, draw.io, Miro, WebVOWL].
- Design and development of project-based custom software for knowledge retrieval, transformation, population, and enrichment [Python, SPARQL, SPARQLWrapper, RDFLib, SPIN, and more].
- Conceived, designed, secured public funding for, and implemented Semantic ETL framework CASPAR [Python, JSON, SPARQL, SQL, RDF, APIs, RabbitMQ, RDF triplestores, data mappings].
- Developed and published Python library SPARQL Burger for automated query generation (>3K downloads).

03/2014 - 10/2019 **Software & Knowledge Engineer**, Information Technologies Institute, Greece

- Participation in several EU-funded projects as technical manager, task/work-package leader.
- Designed and developed taxonomies/ontologies/knowledge graphs in close collaboration with end users.
- Configured, deployed, and integrated semantic infrastructure (RDF triplestores, UIs, querying interfaces).
- Designed and developed the PROPhet Ontology Populator tool for the extraction of knowledge from Linked Open Data repositories and the enrichment of in-house knowledge graphs.
- Developed and published Python library PyLOD for knowledge extraction from Linked Data (>21K downloads)

06/2016 - 06/2018 **CTO**, SentiGeek, Greece

- Development of NLP algorithms with semantic technologies and reasoning for sentiment analysis of customer reviews [spaCy.io, SPARQL, Python].

TECHNICAL SKILLS

- 8+ years: Python, SPARQL, RDF, NT, TTL, JSON, Protégé, OntoText GraphDB.
- 3-5 years: Stardog, Jena Fuseki, REST APIs, PHP, Javascript, HTML, CSS, PlantUML, AMQP, SQL/MySQL/SQLite.
- 1-2 years: TopBraid Composer, JSON-LD, SPIN, SHACL, SWRL, NLP, spaCy.io, MQTT, OpenAPI, PyQt.

EDUCATION & ACADEMIA

- **2012** M.Eng. in Electrical & Computer Engineering, Aristotle University of Thessaloniki, Greece.
- Publications: 18 conf. papers, journal articles & book chapters.
- Languages: Greek (native), English (C2), French (A2).