Name: Iosif

Surname: Angelidis

Birth: June 16, 1993

Location: Athens, Greece

Position: Software developer (backend), Researcher, Data scientist

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Contact

Short summary

Iosif Angelidis is a software developer (backend)/researcher/data scientist with 3 years of working experience. He has a strong theoretical background, paying attention to details, optimization and documenting the final product. He is passionate about Java backend development and RESTful APIs, as well as automating tasks and manipulating data with Python scripts. He is hard working, eager to learn and happy to assist peers. He is a member of MADgIK and the AI group of the University of Athens. He has worked as a researcher, focusing on various aspects of knowledge harvesting, representation, reasoning and analytics. Currently, he is seeking employment, aiming to participate in interesting projects to expand his horizons and learn new technologies and workflows. **Military obligations fulfilled by July 10, 2020.**

Working experience

- 2017 - 2019: Researcher/software developer in the projects "Copernicus App Lab" (Horizon2020, EU Research and Innovation Programme), "Nomothesi@", "Choronomothesia".
- 2015 - 2019: Teaching Assistant in the National and Kapodistrian University of Athens, Department of Informatics and Telecommunications, in: Artificial Intelligence, Object Oriented Programming Lab. Supervision/development of educational material for "Algorithms and Complexity" and "Operations Research".

Skills

- Soft Skills: communication, team player, patient, ability to cooperate remotely.
- Programming Languages: C, C++, Java, Python.
- Operating Systems: GNU/LINUX (including advanced distros like Arch and Manjaro), Microsoft Windows, MacOS.
- Shell Scripting: bash, zsh.
- Frameworks & Libraries: Spring ecosystem, Bootstrap, Keras, Tensorflow, SciKit Learn, Numpy, Pandas.
- Style Sheet and Doc Languages: HTML5, CSS3, XML, SOAP, RDF, OWL.
- Servers & Databases: Apache Tomcat, Wildfly/Jboss, Glassfish, Apache HTTP Server/XAMPP, PHPMyAdmin, MySQL Workbench, pgAdmin, SQL, Oracle, PostgreSQL/PostGIS, Redis, (Geo/st)SPARQL.
- IDEs: Intellij, Android Studio, PyCharm, PHPStorm, VS Code, Netbeans.
- Geospatial Systems: Sextant, Strabon, QGis.
- Version Control Systems: Mercurial, Git, CVS, GitHub, GitLab, Bitbucket.
- General: AOP, design patterns, LaTeX, Microsoft Office Suite, Matlab, Gimp.

Projects

- Developer of the platform Nomothesi@, which functions as a portal of greek legislative text from all documents of the National Printing House. We extract

legal, geospatial and textual references to entities, digitalizing this data as Semantic Web data by utilizing structured/semi-structured data with ontologies. Still contributing to the project when time allows.

- **MSc Thesis** "Named Entity Recognition and Linking in Greek Legislation". Supervisors: Manolis Koubarakis (Professor, NKUA), Ilias Chalkidis (PhD Candidate, AUEB). The main focus was on neural networks technologies in the area of natural language processing with the aim of extracting named entities (persons, organisations, legal references, geo-political entities, public documents and unofficial geographical landmarks), converting them into Semantic Web data and then linking them with other third party Semantic Web data (Greek Administrative Geography, Greek DBpedia) using Silk.
- **Undergrad Thesis** "Capacitated Vehicle Routing with Time Windows". Supervisors: Alex Delis (Professor, NKUA), Panagiotis Liakos (PhD, NKUA). The main focus was addressing the titular problem, implement an adapted A^* algo to visualize the shortest paths between stops of the vehicles. To that end, geospatial information was being handled with a Postgres/PostGIS database.
- "Cooperative Routing and Scheduling of an Electric Vehicle Fleet Managing Dynamic Customer Requests". A work in collaboration with Alex Delis (Professor, NKUA) and Panagiotis Liakos (PhD, NKUA). Development of an online algo that uses 3 distinct strategies to optimize routing and scheduling information of an electric vehicle fleet requiring recharging and compare all three. The problem addressed here is a new addition to the VRP-family of NP-hard problems.
- Working on an Android app with RESTful services offering a similar functionality to Airbnb for "e-Commerce" class with geospatial functionalities, Google Maps and locating addresses.
- Participation in a 3-member team where the representation of multiple social networks as graphs, graph quries (multi-threaded) and multiple metrics regarding communities and cliques finding were implemented (in C) for "Software Development" undergrad course.
- Development of a lending library website with user roles and shopping cart functionalities for "Human-Computer Interaction" undergrad course.

Education

- 2016-2018: MSc degree in Information and Data Management, National and Kapodistrian University of Athens, Department of Informatics and Telecommunications. Grade: 9.39/10.0.
- 2011-2016: Ptychion (4-year degree with thesis) in Computer Science - Theoretical Informatics, National and Kapodistrian University of Athens, Department of Informatics and Telecommunications. Grade: 9.34/10.0.
- 2007: ECDL (Syllabus Version 4.0) certificate in Databases, Concepts of IT, Word Processing, Presentations, Information and Communication, Spreadsheets, Using the Computer and Managing Files.

Languages

- English: Certificate of Proficiency in English, 2009 University of Michigan, First Certificate in English (Grade B), 2008 University of Cambridge.
- Greek: Native language.

Distinctions

- 2011: Greek State Scholarships Foundation (IKY) scholarship for academic performance, 2011-2012.
- 2002: second place certificate in backstroke 33m, Panellinios AC.

Publications

- **T. Beris, I. Angelidis, I. Chalkidis, C. Nikolaou, C. Papaloukas, P. Soursos and M. Koubarakis**. "*Towards a Decentralised, Trusted, Intelligent and Linked Public Sector. A Report from the Greek Trenches*". LDOW/LDDL workshop, The Web Conference (WWW 2019), San Francisco, CA, USA, 13 May, 2019. [PUB][E-PRINT][BIB].
- **I. Angelidis, I. Chalkidis, C. Nikolaou, P. Soursos and M. Koubarakis**. "*Nomothesia: A Linked Data Platform for Greek Legislation*". MIREL workshop, Luxembourg Logic for AI Summit (LuxLogAI 2018), Luxembourg, 17 September, 2018. [PUB][E-PRINT][BIB].
- **I. Angelidis, I. Chalkidis and M. Koubarakis**. "*Named Entity Recognition, Linking and Generation for Greek Legislation*". The 31st international conference on Legal Knowledge and Information Systems (JURIX 2018). Groningen, The Netherlands, 12-14 December, 2018. [PUB][E-PRINT][BIB].
- **D. Punjani, K. Singh, A. Both, M. Koubarakis, I. Angelidis, K. Bereta, T. Beris, D. Bilidas, T. Ioannidis, N. Karalis, C. Lange, D. Pantazi, C. Papaloukas and G. Stamoulis**. "*Template-Based Question Answering over Linked Geospatial Data*". GIR 2018 workshop. Collocated with ACM SIGSPATIAL. Seattle, USA, 6 November, 2018.[PUB][E-PRINT][BIB].
- **P. Liakos, I. Angelidis and A. Delis**. "*Cooperative Routing and Scheduling of an Electric Vehicle Fleet Managing Dynamic Customer Requests*". Proceedings of the International Conference on Cooperative Information Systems (CoopIS), Rhodes, 28 October, 2016. [PUB][E-PRINT][BIB].

Research interests

My research interests focus on Artificial Intelligence, Deep Learning, NLP and Semantic Web Technologies.

Hobbies and interests

- Exploring the open source community, learning new technologies.
- Travelling, visiting archaeological sites, gaming, swimming.
- Psychology, philosophy, mathematics, history and physics.