

Vassilis Moustakas

Software Development Engineer, M.Sc.

Freischützstr. 107
81927, Munich, Germany
☎ +49 176 55194610
📠 (Home) +49 (0) 89 20097833
✉ vsmoustakas@gmail.com
📄 vmous.github.io
🌐 linkedin.com/in/vsmoustakas
📄 github.com/vmous

Experience

- Sep. 2013 – Present **Software Development Engineer, Search, A9.com** (an Amazon company), Munich, Germany.
- *Accomplishments:*
 - Designed and built a Deep Learning data pipeline to improve searchability of new products.
 - Launched matching and Query Understanding features for automotive category in 5 EU marketplaces that improved key user engagement metrics. Led the design of the same features for India and Japan.
 - Launched UTF-8-aware text normalization improving precision and recall for queries in non-English scripts.
 - Acted as team lead for:
 - A/B testing by designing 5+ hypotheses with product owners, defining launch criteria and ensuring statistical significance of results, resulting in 2 new feature launches,
 - trainings by conducting 20+ local and remote sessions ensuring retail teams leverage the search engine to develop their business,
 - improving local engineering culture by building a cross-team community that organized activities like workshops and tech talks.
 - *Project:* Product Search
 - *Technologies:* AWS (EMR, Data Pipelines, EC2 P2), Apache Spark, Scala, Python, Tensorflow, C++
- Nov. 2011 – Aug. 2013 **Software Development Engineer, Embedded, iP4.tv GmbH**, Freiburg Area, Germany.
- *Accomplishments:*
 - Implemented from scratch the SolidWrapper porting layer that exposes low level DVB functionality to UI developers.
 - Kickstarted the implementation of SoldiUI, showcase UI for SolidWrapper.
 - *Project:* SolidTV
 - *Technologies:* Qt Quick (QML, Qt/C++, Javascript), C, QtWebkit
- Jun. 2008 – Jul. 2010 **Software Development Engineer, Research, National & Kapodistrian University of Athens**, Athens, Greece.
- Working student and M.Sc. thesis at Management of Data, Information & Knowledge Group.
- *Accomplishments:*
 - Owner of a GWT portlet interfacing with a search web service.
 - Managed software releases (SA3 team - integration, testing and distribution, code quality, documentation, test coverage, statistics).
 - Systems administrator for the lab's production-level GR-09-UoA Grid site.
 - *Projects:* D4Science (D4S) I/II
 - *Technologies:* Java EE, Apache Lucene, Grid Computing, Xen, VMWare, Nagios, shell scripting
- Apr. 2006 – Jul. 2007 **Software Development Engineer, Research, Institute of Informatics & Telecommunications - NCSR "Demokritos"**, Athens, Greece.
- Internship and B.Eng. thesis at Software and Knowledge Engineering Laboratory.
- *Accomplishments:*
 - Improved news retrieval by implementing personalized content-based filtering.
 - Implemented free-text news search functionality.
 - Implemented new, i18n, web UI and management utilities for the news web crawler.
 - *Projects:* Personalized News Service (PNS), PServer
 - *Technologies:* JavaEE, Apache Lucene, Tomcat, MySQL

Education & Training

Education

- 2010 **M.Sc. in Information Technology**, *Department of Informatics & Telecommunications*, National & Kapodistrian University of Athens,
Grade: 9.27/10.
M.Sc. Thesis: *Model for Digital Content Definition and Presentation*
Supervisor: *Prof. Alex Delis*
- 2007 **B.Eng. in Informatics**, *Department of Informatics*, Technological Educational Institute of Athens,
Grade: 7.87/10.
B.Eng. Thesis: *Personalized Information Presentation Using Content-based Filtering*
Supervisors: *Prof. Christos Skourlas* and *Dr. George Paliouras*

Languages

Greek	Mother Tongue	-
English	Proficient User	<i>Proficiency in English, University of Cambridge (C2 CEFR level)</i>

Cerifications

- 2018 **Deep Learning**, *Coursera Specialization*.
- 2017 **Functional Programming in Scala**, *Coursera Specialization*.
- 2015 **Mining Massive Datasets**, *Coursera*.
- 2014 **Machine Learning, Introduction to Philosophy**, *Coursera*.

Publications

Moustakas, Vassilis and Akcan, Hüseyin and Roussopoulos, Mema and Delis, Alex. *Alleviating the topology mismatch problem in distributed overlay networks: A survey*. *Journal of Systems and Software*, Volume 113, Pages 216-245, March 2016, <https://doi.org/10.1016/j.jss.2015.11.038>

Paliouras, Georgios and Mouzakidis, Alexandros and Moustakas, Vasileios and Skourlas, Christos. *PNS: A Personalized News Aggregator on the Web*. *Studies in Computational Intelligence (SCI)*, 104, 175-197, Springer Berlin Heidelberg, 2008, https://doi.org/10.1007/978-3-540-77471-6_10

Skills

Informatics

O-O	Python, Scala, Java, C++	Cluster	Spark, Hadoop/Pig
ML	Tensorflow, Keras, MXNet	AWS	EMR, EC2 (P2), Data Pipeline, S3
DevTools	Emacs, Git, IntelliJ	OS	Linux
Practices	Design Patterns, Unit-testing, TDD, BDD, CD/CI	Processes	Scrum, Scrumban

Soft Skills

Team spirit, self-organization, ownership, distributed collaboration, multi-cultural awareness, learn and be curious, coaching

Additional Information

Interests

Academic	Distributed Systems, Machine Learning, Information Retrieval
Personal	Sci & Tech, music, guitar playing, basketball, philosophy, wine tasting, charcoal drawing

Other

Groups	MaDgIK, SKEL, SciFY
Public service	Service at the Hellenic Armed Forces (2010)