Georgios Manakanatas

Software Architect

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Web & Git

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/in/george-manakanatas
https://github.com/
GeorgeManakanatas
https://george
manakanatas.github.io/

Programming Languages

Human Languages

Dutch	★☆☆☆☆
English	★★★★★
German	★★★☆☆
Greek	★★★★★

OS Experience

Linux	★★★★★
MacOS	★☆☆☆☆
Windows	★★★★☆

Experience

11/2019 - 11/2021

Software Architect
VITO, Mol, Belgium

My last position was that of Software architect for the data science hub at VITO.

My main responsibilities there where supporting my colleagues in all stages of IT related projects, form planning all the way through development of a PoC to deployment to production. The work focused mostly on the design and implementation of database models, setting up new or improving existing ETL pipelines, helping solve issues related to data engineering and data science as well as helping the push to make the organization more digital and data driven.

Most of the work was done in Python and JavaScript as well as R and Bash/PowerShell with smaller parts in Java. Some of the more interesting projects like a custom organization wide data discovery pipeline and the data science hub's involvement in SOLID also make extensive use of semantic technology and graphs.

04/2016 - 10/2019

Software Engineer
Apogado CVBA, Mechelen, Belgium

Working for Apogado my time was split between back end development, software architecture, and consulting.

As a software engineer I focused mostly on the back end writing in Java, JavaScript and Python. Being comfortable working with both legacy code as well as on new projects, SOAP and REST protocols, with relational and non relational databases as well as automated testing. My Java projects leaned heavily on Apache service mix components for ETL as well as services for accessing the various authentic sources of the Belgian federal state. My JavaScript work was on back end development of proprietary Apogado software built on the MEAN stack. Python and Bash scripting where used for small ad hoc projects or as additional components to add functionality to legacy code that was difficult to modify.

As a consultant I helped design and/or implement custom made solutions tailored to the needs of specific clients as part of the Apogado team.

09/2014 - 09/2015

Master's Thesis
Hellenic Open University, Patra, Greece

Knowledge hiding and Association rule hiding, hiding frequent itemsets, exact knowledge hiding through database extension, k-anonnymity, Rob frugal anonymisation, Apriori data mining algorithm. Python programming, tkinter GUI package, LaTeX text editor.

09/2004 - 09/2015

Physics and Mathematics tutor
Freelance, Heraclion & Athens, Greece

Physics and Mathematics tutoring for high school and junior high school students. Advanced Physics and Mathematics classes for College students, preparatory courses for end of semester examinations.

Education

2012 - 2015

Master's Degree in Information Systems Hellenic Open University, Patra, Greece
Curriculum: Information and Communication Technologies.
Main subjects: Computer Networks and Communications, Computer Architecture, Software Engineering, Software Design and Management Processing.
Title of the Thesis: "Blocking Inference Channels in Outsourced Data Mining."
Relators: Prof. Ilias Stauropoulos, Prof. Basilios Berikios.

2000 - 2009

Bachelor's Degree in Physics University of Crete, Heraklion, Greece
Curriculum: Physics and Mathematics.
Main subjects: Classical Mechanics, Electromagnetism, Thermodynamics and Statistics, Quantum Physics, Atmospheric Physics, Introduction to Circuit theory, Applied Geophysics, Elements of Electronics, Introduction to Optoelectronics, Financial Mathematics, Computational Physics.

Skills

Programming
Good knowledge of Java, JavaScript and Python.
Working Knowledge of SQL, Bash and R.
Frameworks & Databases
Good knowledge of Flask, Airflow, Node.js, Express.js, MongoDB, PostgreSQL, MySQL.
Working knowledge of Talend ESB, Django, AngularJS, Apache CXF, Apache Camel, Apache Karaf, Spring.
Tools
Good knowledge of Postman, SoapUI, Ansible, Docker, Selenium.
Working knowledge of Jenkins, Apache Maven, Talend Open Studio
General
Solid mathematical background and analytic skills from my physics studies. Basic knowledge of Data mining as well as data anonymization and de-identification methods.

Chess & GO amateur player

History & Film buff

Tabletop games enthusiast

Crime & Science fiction novels

Certifications

English : Near Native Fluency, Certificate of Proficiency in English, University of Cambridge
German : Conversational, Zeugnis Zentrale Mittelstufenprüfung, Goethe Institut
Greek : Native Speaker

Other Info

European driving licence, Belgian certificate of registration. For the Greek job market: Στρατιωτικές υποχρεώσεις εκπληρωμένες, φορολογικός κάτοικος εξωτερικού.

June, 2021

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