EDUCATION

2011 – 2013	**Master of Science** COMPUTER SCIENCE *ETH Zürich* GPA: 5.5/6 (also received scholarship)
Master Thesis	**Adaptive filters for optimizing range query processing on data across multiple physical locations** *Supervised by Donald Kossmann*
2007 – 2011	**Bachelor of Science** COMPUTER SCIENCE *University of Athens* GPA: 9.3/10 – Top graduate in fall 2011

WORK EXPERIENCE

NOVEMBER 2015 - PRESENT

Lead Data Engineer at Tracktics GmbH, Zürich

Responsible for creating internal tools and automated processes to keep the data organized and to evaluate and produce reports for the accuracy of different approaches to fuse GPS with intertial sensor data. Working with Python, C and MATLAB.

SEPTEMBER 2013 - JUNE 2015

Software Developer at Teralytics AG, Zürich

Worked with geospatial databases (PostgreSQL), Apache Hadoop, Spark and other data analysis libraries to provide business insights on large volumes of data. Developed solutions for complex data analytics, visualizations, reports, data management and integration in Python, Scala and Java.

MARCH 2013 - JUNE 2013

Software Engineering Intern at Google, Zürich

Worked with Google Web Toolkit on the Youtube Analytics Team. Responsibilities included database migration and data analysis.

SELECTED FREELANCE WORK

Python and Data Engineering Tutor, online

Micro-consulting via codementor.io.

Mentor at Andela, online

Mentored junior programmers in Python, testing and programming patterns to prepare them for working remotely.

Data Consultant for New Incentives, Zürich

Created a data pipeline in Scala to sync data daily across mobile devices and Google spreadsheets.

QGIS Plugin Developer for OpenGis.ch, Zürich

Responsible for developing Python plugins for geospatial data management.

☺ | **Ariadni-Karolina Alexiou**
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CORE COMPETENCIES

Data Science - Loading, exploring, creating interactive reports/visualizations for data in Python, combining diverse datasets and APIs, applying statistical methods.

Data Engineering - Productization of data science prototypes, managing communication between engineers and data scientists, building data pipelines and creating tools for continuous evaluation and data management.

Big Data - Experience with PostgreSQL, Hadoop and Scala/Spark, celery to do quicker computations.

Full stack development with Flask/Django, creating APIs, jQuery (focus on backend).

Devops - Automating deployment of data pipelines and other tools with Ansible.

Geospatial Data - Familiar with PostGIS, QGIS and have co-authored a plugin for interactive visualization of geotemporal data.

SELECTED CONFERENCES AND ARTICLES

2016	Published reflections on the future of Data Pipelines and the future of Python for Data Science
2015	Tutorial with Python code snippets: Exploring a UFO sightings dataset
2015	Article: Common mistakes with Python and Big Data
2015	Presented workshop at QGIS user & dev conference
2014	Presented published paper at VLDB 2014 (Master Thesis)
2014	Speaker at PyData Berlin conference on Mall Analytics (from prototype to product)

PERSONAL INTERESTS

Painting (have some professional training), Social Science, Travelling