## About me

I am a well-rounded Python developer with over 5 years of experience in data science and web development teams. I believe in building things right, building the right things, and working in a sustainable way. That means caring about code quality and testing, releasing small and iterating, practicing open communication and always reflecting on my processes. Looking for a new position where I can make a difference.

## Work Experience

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SEPTEMBER 2018 - PRESENT

### Senior Software Engineer (self-employed), London/remote

Delivering data science, data engineering, GIS and backend projects. Selected experience:

- Backend and systems engineer at the Link Institute for Market Research.
- Project leader at the Open Humans Foundation. Responsible for integrating Google Fit as a data source.
- GIS expert for Deutsche Welle. Consulted on article about the originating locations of fires in recent years.
- Data journalism project: Is London a forest?

MARCH 2017 - AUGUST 2018

### Senior Software Engineer at siroop, Zürich

Worked in the data science and the web development team of a Swiss e-commerce platform with thousands of sales every day.

**Full Stack Web development**

- Built critical features from scratch (voucher and promotion support, custom brand pages, integration of analytics tracking) using Django, Flask and RESTful services
- Extended existing functionality (product pages, CMS service and payment system) practicing TDD and pair programming
- Optimized test running time, local deployments with docker-compose and other aspects of the day to day development process
- Updated and deployed new AWS infrastructure (lambdas, Kinesis stream, DynamoDB) using Terraform
- Participated and led agile ceremonies (stand-ups, retrospectives)
- Acted as deputy team lead for a team of 7 and mentored more junior engineers

**Data Engineering**

- Launched personalized product recommendations to production
- Worked closely with data scientists to build a tool library
- Introduced and set up airflow as a pipeline manager for the recurring jobs
- Introduced and set up databricks as a development environment
- Did troubleshooting for scaling and cluster issues the data scientists faced (pySpark and pandas)

## Work Experience Contd.

NOVEMBER 2015 - FEBRUARY 2017

### Lead Data Engineer at Tracktics GmbH, Zürich

Responsible for overseeing the extracting of insights from GPS and sensor data, collected from a tracker worn by football players in the field.

- Built the production data pipeline. It automatically processed the raw data (various stages, eg: MATLAB binary, Jupyter notebooks and python modules, chained together with celery)
- Launched various additional tools (heatmap generator, football pitch locator) to production
- Designed and oversaw the collection of test data to evaluate our algorithms
- Built evaluation into the data pipeline (in a way that externals could use it, and internals could easily create new report templates for new metrics)
- Built a library of common functionality together with the data scientists and mentored junior engineers

SEPTEMBER 2013 - JUNE 2015

### Software Engineer at Teralytics AG, Zürich

Worked as a software engineer, extracting insights from mobile phone data and supporting my colleagues to do so.

- Created data pipelines to go from raw data to automatically updating web dashboards in production
- Created interactive visualizations of geospatial data (using PostGIS, d3, QGIS) for our customers
- Contributed to (and became co-maintainer) of an open source tool to visualize geotemporal data
- Built a library to unify access to diverse data sources

## Selected Conferences and Articles

| | |
|---|---|
| 2017 | Speaker at PyData Berlin conference: Patterns for Collaboration between Data Scientists and Software Engineers<br>video \| article |
| 2016 | Published reflections on the future of Data Pipelines and the future of Python for Data Science |
| 2015 | Tutorial (Python): Exploring a UFO sightings dataset |
| 2015 | Article: Common mistakes with Python and Big Data |
| 2015 | Workshop on visualizing geotemporal data |
| 2014 | Presented published paper at VLDB 2014 |
| 2014 | Speaker at PyData Berlin conference on Mall Analytics (from prototype to product) |

## Education

| | |
|---|---|
| 2011 – 2013 | **Master of Science** |
| | Computer Science |
| | *ETH Zürich* |
| | GPA: 5.5/6 (also received scholarship) |
| 2007 – 2011 | **Bachelor of Science** |
| | Computer Science |
| | *University of Athens* |
| | GPA: 9.3/10 – Top graduate in fall 2011 |

## Selected Freelance or Other Work

**Node Developer for SignedBlock, Athens**

Extended and dockerized a program for live collection of data from the cryptocurrency market.

**QGIS Plugin Developer for OpenGis.ch, Zürich**

Responsible for developing Python plugins for geospatial data management.

**Python and Data Engineering Tutor, online**

Micro-consulting via codementor.io on several data science/engineering projects.

**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.

**Software Engineering Intern, Google Zürich**

Migrated a feature of Youtube Analytics to the new backend.

## Languages

English, German and Spanish in full professional capacity. Greek as mother tongue, some French.

## Personal Interests

Painting (have some professional training), Social Science, Traveling. I have combined my thinking/practice as a programmer with those of being an artist to create a Drawing for Techies Workshop, which I have run multiple times in Switzerland, Germany and the UK.