





Antonios Kioukis

Data Scientist

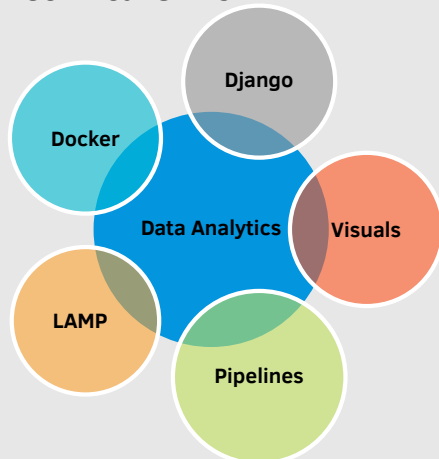
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 /in/antonios-kioukis

 antokioukis

Technical Skills



Programming

- Django, Python, R
- C, SQL, Bash
- HTML, CSS, Javascript

Education

PhD. *, Bioinformatics

Specialization: Microbial Diversity
Medical School,
University of Crete, Greece
2018 - 2022

MSc., Bioinformatics (Av: 8,46)

Specialization: Databases
Medical School,
University of Crete, Greece
2016 - 2018

BSc., Computer Science (Av: 6,65)

Computer Science Department,
University of Crete, Greece
2010 - 2016

Languages

Greek/English Native
French C1

Recommendations

Army IT
ICS-FORTH

Experience

March 2023 - Back-end Engineer

Synelixis S.A.

Present

- Django Framework based development.
- Tools: Python, Django, Docker, redis, RabbitMQ, nginx, gUnicorn.

May 2021 - Full Stack Developer

IMNGS2

Dec 2022

- Full stack development, incorporating profile query and TIC-Pipeline/Rhea.
- Tools: Python, Django, Docker, redis, RabbitMQ, nginx, gUnicorn
- Funded by ELIDEK (Greece)

Nov 2018 - Data Scientist

MSD, IMNGS, RHEA, TIC

May 2021

- Biological data, statistical analysis, hypothesis testing, A/B testing, team-leading, communication of results and methodologies to doctors and stakeholders
- Tools: Pandas, Plotly, R
- Funded by DFG (Germany).

Apr 2016 - Graduate Teaching Assistant

CSD + Medical School - University of Crete

Jun 2019

- TA for CS*390 (Introduction to Bioinformatics). Delivered several lectures for CS*390 focusing on Data Visualization.
- TA for BC*215 (Rhea: 16S Analysis Pipeline), answering, technical support and troubleshooting students questions.

Research

2019-2022 PhD Candidate, Graduate Research Assistant

ICS-FORTH

Thesis: Quantifying microbial dark matter based on SRA samples

- TIC-Pipeline: Novel DNA sequence clustering method based on their taxonomy information, provided by multiple classifiers
- Biomic: Extracting and illuminating microbial dark matter from millions of microbial DNA sequences
- Tools: Django, HTML, bash

2016 - 2018 MSc. Candidate, Graduate Research Assistant

ICS-FORTH

Thesis: Bioinformatics applications in plant molecular research

- Crowth, an identification platform for grapevine, olive and honey.
- Evonet, simulator of evolution of gene regulatory networks by means of selection and random genetic drift.
- Brassica Cretica, draft genome sequence and demography history of the wild crop relative Brassica cretica Lam.
- Tools: Django, HTML, bash

Publications

Kioukis Antonios et al. "Taxonomy Informed Clustering, an Optimized Method for Purer and More Informative Clusters in Diversity Analysis and Microbiome Profiling"

Hitch Thomas CA, et al. "Recent advances in culture-based gut microbiome research."

Kioukis Antonios, et al. "Intraspecific diversification of the crop wild relative Brassica cretica Lam. using demographic model selection."

RN Mourgela, et al. "Large-Scale Integration of Amplicon Data Reveals Massive Diversity within Saprospirales, Mostly Originating from Saline Environments"