


Aggelos Arelakis

aggelosarelakis@gmail.com | 698 900 1694

 [linkedin.com/in/AggelosArelakis](https://www.linkedin.com/in/AggelosArelakis)

 github.com/AggelosAr

 arelakis.info

ABOUT ME

Possessing a strong foundation in data structures and algorithms, my aim is to utilize and further refine these skills. Committed to adhering to best coding practices to ensure efficient and maintainable code.

EDUCATION

**B.Sc. School of Informatics
Aristotle University of Thessaloniki -
Faculty of Sciences - 11/2022**

Grade - 7.4/10

LANGUAGES

Greek
proficiency in English

PROGRAMMING LANGUAGES

Good knowledge of Python
Exposure to Go, JS
Basic Exposure to C++, Java, R, SQL,
PHP, Prolog

WEB DEV TOOLS

Docker

Kraken (Reverse Proxy)

Playwright

React

FRAMEWORKS

Django

Flask

FastAPI

Pydantic

TensorFlow

Keras

Tkinter

EXPERIENCE

VesselBot - Python Developer - 02/2024 - now

- Developed high-quality web scrapers to extract data from PDFs, HTML, and JavaScript-rendered pages, implementing rate limiting and using `bisect` to intelligently bypass rate limits for improved performance.
- Designed, maintained, and refactored RESTful APIs and endpoints, implementing user-related features such as registration, authentication, and management, as well as transaction processing and a referral bonus system in Django.
- Leveraged technologies like Redis, Celery, Memcached, PostgreSQL, Docker, Kraken, and Git to ensure efficient performance and scalability.
- Worked extensively with geospatial data to enhance location-based features, built custom caching middleware to optimize performance, thoroughly tested algorithms by writing comprehensive tests to ensure accuracy, and improved Git skills for more efficient version control.

Professional Development and Learning - 08/2023 - 01/2024

- Followed courses on Frontend Masters, gaining foundational knowledge in JavaScript, HTML, CSS, and Go.
- Improved problem-solving skills by practicing algorithmic challenges on LeetCode, focusing on data structures and efficient coding techniques.

LoopCV - Python Developer - 03/2023 - 07/2023

- Developed and maintained various web scrapers, utilizing BeautifulSoup, Requests and Playwright.
- Built and maintained APIs using FastAPI and Pydantic, leveraging MongoDB and Redis for effective data management.

ACADEMIC PROJECT HIGHLIGHTS

Thesis - Multi-Document Summarization of Comment Pools with Transformers

- DistillBART, DistillPEGASUS and the T5Base Transformer models were fine-tuned on the ConvoSumm dataset and were tested on real Twitter comments.
- Since some posts were very big a divide and conquer approach was used.
- The summaries were quite satisfactory with ROUGE scores of (38/11/35) and BERT scores of 88%.

Icarus - (AUTH)

- Developed a 3D convolution algorithm utilizing 3x3x3 kernels in TensorFlow.
- Incorporated the TensorFlow Profiler for benchmarking execution times.
- On specific benchmarks MyConv achieved speeds of approximately 87μs while the `tf.keras.layers.Conv3D` layer stood at 125μs, indicating a performance improvement of around 40%.