


Aggelos Arelakis

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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

MILITARY SERVICE

Technician of Wireless
Communications - Hellenic Army –
ELDYK - 01/2018 – 10/2018

- Served 7 months in ELDYK in wireless communication systems. Which helped develop discipline, teamwork, and technical problem-solving skills.

LANGUAGES

Greek
proficiency in English

PROGRAMMING LANGUAGES

Python | RegEx
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

COMMSQUARE - Python Engineer - 04/2025 - 10-2025

- Refactored a legacy Python (Django 2.x → 5.x) codebase to modern standards, including full type annotations and architectural cleanup. Improved API performance by 32.9% in execution speed and reduced memory usage by 43.7% (≈0.5 GB saved). Also developed a new algorithm to dynamically generate SQL queries on demand, eliminating the need to rely on Django's ORM.

VesselBot - Python Developer - 03/2024 - 03/2025

- Developed high-quality web scrapers to extract data from PDFs, HTML, and JavaScript-rendered pages, using various techniques to intelligently bypass rate limits.
- Designed, maintained, and refactored APIs (Django), focusing on features such as registration, authentication, management, transaction processing, forget/reset password functionality and a referral bonus system.
- 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, and thoroughly tested algorithms with comprehensive unit and integration tests. Also designed a flexible data parsing layer using TOML configuration files and a custom wrapper around Pandas to process and normalize company data efficiently. .
- Built a custom Python-based library (3k LOC) around an existing JMeter wrapper to programmatically generate performance test suites using Pydantic models and modular configuration patterns.

Professional Development and Learning - 08/2023 - 03/2024

- 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/ICARUS -

- Various Transformer models were fine-tuned and tested on real Twitter comments. using a divide and conquer approach, achieving ROUGE scores of (38/11/35) and BERT scores of 88%. Also a 3D convolution algorithm was developed in TensorFlow, on specific benchmarks MyConv achieved speeds of approximately 87μs while the tf.keras.layers.Conv3D layer stood at 125μs.