

Aggelos Arelakis

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PROFILE

Python-focused Software Engineer with experience building backend services, APIs, web scrapers, testing infrastructure, data-processing systems, and performance-oriented tooling. Strong background in Python, Django, FastAPI, PostgreSQL, Redis, Docker, and automated testing.

EDUCATION

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

TECHNICAL SKILLS

Backend
Django • FastAPI • Flask
Pydantic • Phoenix • AWS • NginX

Data & Infrastructure
PostgreSQL • SQLite • Redis
Memcached • Docker • Kraken • Clickhouse
• Celery

Testing & Web
Pytest • Playwright • JMeter
React • REST APIs

Other
Git • Pandas • TensorFlow
Keras • Linux

PROFESSIONAL DEVELOPMENT

Boot.dev — Backend Developer Path
2025–Present
Backend-focused coursework covering Python, Go, SQL, HTTP, Linux, Git, Docker, algorithms, networking, and software engineering fundamentals.

Frontend Masters — LeetCode
09/2023–04/2024
Backend/frontend focused coursework on Frontend Masters, gaining foundational knowledge in JavaScript, HTML, CSS, and Go. Improved problem-solving skills through algorithmic challenges on LeetCode, focusing on data structures and efficient coding techniques.

EXPERIENCE

Sportradar 12/2025 – 02/2026
Elixir Developer

- Integrated new data providers into an existing Elixir/Phoenix backend pipeline.
- Designed and implemented changes across the provider integration and processing flow.
- Added automated tests to the existing test suite to improve coverage and reliability.

COMMSQUARE 04/2025 – 11/2025
Python Engineer

- Refactored a legacy Django 2.x codebase to Django 5.x, introducing comprehensive type annotations and architectural cleanup.
- Improved API execution speed by approximately 32.9% and reduced memory usage by approximately 43.7%.
- Developed an algorithm for dynamically generating SQL queries, reducing reliance on Django's ORM.

VesselBot 03/2024 – 03/2025
Python Developer

- Developed web scrapers for PDF, HTML, and JavaScript-rendered sources, including techniques for handling rate limits.
- Designed, maintained, and refactored Django APIs covering authentication, registration, transactions, password recovery, and referral functionality.
- Worked with Redis, Celery, Memcached, PostgreSQL, Docker, Kraken, and Git to support scalable backend services.
- Built geospatial features, custom caching middleware, unit/integration tests, and a TOML-configured data parsing layer around Pandas.
- Developed a Python library of approximately 3k LOC around a JMeter wrapper to programmatically generate performance-test suites using Pydantic models.

LoopCV 03/2023 – 08/2023
Python Developer

- Developed and maintained web scrapers using BeautifulSoup, Requests, and Playwright.
- Built and maintained FastAPI/Pydantic APIs using MongoDB and Redis.

SELECTED PROJECTS

tINI-test — Creator 2025 – Present

- Independently designed and developed a lightweight Python testing framework and published it to PyPI.
- Implemented test discovery and execution features, synchronous/asynchronous test support, setup/cleanup handling, filtering, decorators, and automated tests.

Multi-LLM Harness — Personal Project 2025 – Present

- Designed and developed a Django/JavaScript application integrating approximately 10–15 LLM providers through provider SDKs and HTTP APIs.
- Built conversation history and scratchpad functionality using SQLite, allowing users to query multiple models and compare responses.
- Developed a proprietary answer-grading system for evaluating and comparing LLM outputs, with code-formatting support.

Thesis / ICARUS

- Fine-tuned Transformer models on real Twitter comments using a divide-and-conquer approach, achieving ROUGE scores of 38/11/35 and a BERT score of 88%.
- Developed a 3D convolution implementation in TensorFlow achieving approximately 87 μ s on selected benchmarks versus 125 μ s for `tf.keras.layers.Conv3D`.