Athanasios Agrafiotis

Computer Scientist

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PROFILE

Hello, I'm Athanasios, a full stack dev/Computer Scientist. Seeking an opportunity to leverage my diverse skills, software implementation, experience in data and analysis into the open data! Extensive experience in the development software and excellent analytical techniques. Implementations to play a key role in analyzing problems and come up with creative solutions as well as producing methodologies and files for effectively use.

WORK EXPERIENCE

Feb 2022 – Sep 2023

Python Developer – Graduation Project, Graduation Project · Amsterdam, Netherlands

- Developed a Python desktop/Jupyter application to simulate a quantum communication protocol.
- Validated the protocol by comparing fidelity against a multi-agent approach, running 5+ test scenarios across 4 models. Using different message lenght.

Feb 2021 – Sep 2020

Mobile App Developer – Freelance, Freelancing · Amsterdam, Netherlands

- Developed an Android mobile application in Java/Kotlin to collect spatial and health-related user data.
- Designed data structures and location handling to explore mobile app architecture and spatial data processing.

Aug 2019 – Feb 2020

Master-Thesis NLP Data Scientist, Olbico · Amsterdam, Netherlands

- Applied text mining and NLP on website headers, focusing on feature re-weighting for improved representation.
- Implemented and evaluated a classical machine learning model with custom feature extraction pipelines.
- Achieved 1–2% higher accuracy compared to the previous state-of-the-art approach on the same dataset.

Feb 2017 – Aug 2017

Website Administration, Mgtoys · Kozani, Greece

- Maintained and updated an e-commerce website, managing product and content changes.
- Wrote custom code snippets to improve user experience and page interactions on the shop.

Jan 2017 – Mar 2017

Freelancer Web, Self-Employed · Kozani, Greece

- Designed and built a custom WordPress theme for a commercial website as a learning project.
- Implemented layout and style changes using HTML, CSS and basic PHP to improve the user experience.

Sep 2015 – Mar 2016

Internship, Public Water Central Heat · Kozani, Greece

- Provided basic software support for office staff and troubleshooting day-to-day issues.
- Collected and organised user feedback from Twitter to support internal reporting.

EDUCATION

Sep 2017 – Feb 2023

Master of Science in Computer Science, Leiden University · Leiden, Netherlands

- Specialisation in Computer Science with focus on advanced data analytics and modern data-intensive applications.
- Developed skills in discovering meaningful patterns in large datasets using modern data science and big data techniques.
- Relevant coursework: Reinforcement Learning, Data Mining, Distributed Computing, Parallel Computing, Multicriteria Optimization, Information Retrieval,Cloud Computing.

Sep 2009 – Jul 2015

Bachelor of Science in Computer Science, Technological Educational Institute of Thessaly, Thessaly, Larisa — University of Applied Sciences

- Degree focused on Information Technology and Telecommunications.
- Core emphasis on programming languages, software development and applied computing.
- Exposure to research-oriented work within computer science topics.

SKILLS

Interests	Maths • Statistics • Physics • Algorithms
Programming Languages	Python • JavaScript • C • Git • PHP • MySQL • Java • Linux • Windows
Frameworks	Spyder • Notepad++ • CMS • Adobe Photoshop • PyCharm
Other	ECDL Core Certificate

LANGUAGES

Greek English

PROJECTS

Sep 2026 – Present

Web-App

- https://www.lifequb.com
- Social network, Machine learning, AI
- Developer

Sep 2023 – Present

Symptemist (Competition Purpose), Spain

- Entity recognition with Reinforcement Learning
- Reinforcement Learning

Feb 2023 – Present

Reinforcement Learning Algorithms (Educational Purpose), Netherlands

- Implementations in Python
- Reinforcement Learning

Feb 2022 – Present

Min-Max, Deep Q-Learning (Educational Purpose), Netherlands

- Creation of a software in Python
- Reinforcement Learning

Sep 2021 – Present

Betweenness Centrality Paper (Educational Purpose), Netherlands

- Creation of a software in Python
- Social Network Analysis

Sep 2023 – Present

Portfolio Landing Page CMS Theme 2023 (Commercial Purpose), Greece

- A theme that is portfolio, blog page and support APIs
- Plugins: SubscribeNow, AI-Product
- Freelancing project
- https://www.asdbv.online

May 2019 – Present

Medical Entities Anonymization, Spain

- Creation of a software in Python
- Mathematical models to erase sensitive information

May 2017 – Present

Commercial Site, Thessaloniki

- Training on building commercial sites
- 12 days training program.

Sep 2017 – Sep 2019

Educational Purpose Projects, Leiden University

- Sound recognition, Implementation of algorithms for networking, Image recognition, Text recognition, Ranking text, Researching of algorithms, Genetic Algorithms, Cloud Computing
- Programs implemented through Master studies available on GitHub.

PUBLISHES

Jun 2024 – Present

Cloud Computing: Testing a Key Generation Encryption Algorithm

- Journal of Computer Science and Information Technology
- Encryption algorithms

SEMINARS

Present

Being a Spammer for 40 Minutes, Athens

- Spam Detection e-mails ISACA

Present

WordCamp Athens, Athens

- Presentation of WP CMS in Athens