

Georgios Kaoukis

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EDUCATION

Diploma (MEng) in Electrical and Computer Engineering

National Technical University of Athens (NTUA)

Oct 2019 – Feb 2026 (Expected)

Athens, Greece

Thesis: Characterization of the Koala Benchmarks

Advisors: Prof. Georgios Gkoumas (NTUA) – Prof. Nikos Vasilakis (Brown University)

EXPERIENCE

Machine Learning Research Intern

Archimedes Research Unit - Athena RC

Jan 2025 – Present

Athens, Greece

- Engineering agentic workflows for Retrieval-Augmented Generation (RAG) systems to enhance context-aware responses.
- Developing domain-specific Knowledge Graphs to drive algorithms for automated greenwashing detection in corporate reporting.

PUBLICATIONS

The Koala Benchmarks for the Shell: Characterization and Implications [Code]

Evangelos Lamprou, Ethan Williams, **Georgios Kaoukis**, Zuoquan Zhang, Michael Greenberg, Konstantinos Kallas, Lukas Lazarek, Nikos Vasilakis. 2025 USENIX Annual Technical Conference (USENIX ATC '25).

* Best Paper Award

EmeraldMind: A Knowledge Graph-Augmented Framework for Greenwashing Detection [Code]

Georgios Kaoukis, Ioannis Aris Koufopoulos, Eleni Psaroudaki, Danae Pla Karidi, Evangelia Pitoura, George Papastefanatos and Panayiotis Tsaparas. The ACM Web Conference 2026 (WWW '26), Web4Good Track.

EmeraldApp: An AI-Driven Tool for Detecting Greenwashing in Sustainability Claims [Code]

Georgios Kaoukis, Ioannis Aris Koufopoulos, Eleni Psaroudaki, Danae Pla Karidi, Evangelia Pitoura, George Papastefanatos and Panayiotis Tsaparas. The ACM Web Conference 2026 (WWW '26), The 6th International Workshop on Computational Methods for Online Discourse Analysis (BeyondFacts '26).

KEY PROJECTS

Blockchat: Proof-of-Stake Blockchain | Python, P2P Networking

- Developed a Python application enabling peer-to-peer messaging and coin transfers on a proof-of-stake blockchain via socket communication.

Linux Device Driver for Crossbow MPR2400CA | C, Kernel Modules

- Developed a Linux level character device driver for the Crossbow MPR2400CA wireless sensor network module.

"Wall-Y" Interior Design App | Dart, Kotlin, Flutter

- Developed an Android interior design application utilizing augmented reality.

SKILLS & COMPETENCIES

Languages: Python, C, Shell, SQL; familiar with Java, Dart, Kotlin

Systems & Tools: Docker, Git

ML & AI: PyTorch, LangChain, LlamaIndex, Hugging Face, Neo4j, OpenCV, scikit-learn

VOLUNTEERING

Fundraising Manager

TEDxNTUA

Oct 2021 – May 2024

Athens, Greece

- Developed negotiation strategies that increased the event budget by 90%, acting as the primary point of contact for corporate partners.
- Led sponsorship acquisition for two annual conferences and later mentored the 2024 team on fundraising and project management.

Laboratory Assistant (Operating Systems)

National Technical University of Athens

Mar 2023 – Jun 2023

Athens, Greece

- Assisted students in laboratory exercises related to Linux process/thread management, synchronization, and filesystems.
- Collaborated with researchers to implement and experiment with custom process scheduling policies utilizing eBPF.

HONORS & AWARDS

Best Paper Award, USENIX ATC 2025

1st Place, Incremental ML Hackathon with IBM SAIL, MORE Project (Information Management Systems Institute - Athena RC)

Eurobank “Great Moment for Education” Award, Panhellenic Exams (Top Academic Performance)

CERTIFICATIONS

Blockchain Summer School (NTUA-MEGA ACE, 2023)

ECPE Certification - English Proficiency