

Georgios Kaoukis

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EDUCATION

Diploma (MEng) in Electrical and Computer Engineering

National Technical University of Athens (NTUA)

Thesis: Characterization of the Koala Benchmarks

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

Oct 2019 – Feb 2026 (Expected)

Athens, Greece

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), Workshops.

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 (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