

# 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**, Zhuoxuan 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, Evaggelia 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, Evaggelia 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**

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**Blockchain Summer School** (NTUA-MEGA ACE, 2023)

**ECPE Certification** - English Proficiency