

# Efthymios Papageorgiou



## Research Experience

<b>Research Assistant</b> <i>University of Crete</i> DEDALUS – Data Management with Quantum Computing Technologies	Aug 2025 – Oct 2025
<b>Graduate Research Fellow</b> <i>Foundation For Research and Technology - Hellas (ICS)</i> <ul style="list-style-type: none"><li>Studied tail latency control in Kubernetes by dynamically adjusting CPU limits of containerized applications using reinforcement learning techniques</li><li>Achieved target CPU utilization for an Apache HTTP Server, by developing a Model Predictive Control (MPC) system that utilized both classical and quantum techniques</li></ul>	Mar 2024 – Aug 2025 Heraklion, Crete, Greece
<b>Undergraduate Research Fellow</b> <i>Foundation For Research and Technology - Hellas (ICS)</i> <ul style="list-style-type: none"><li>Conducted research on Apache HTTP Server, focusing on various Multi-Processing Modules (MPMs) and the reconfiguration transition phase</li></ul>	Apr 2023 – Mar 2024 Heraklion, Crete, Greece

## Teaching Experience

<b>CS590.45: Modern Topics in Scalable Storage Systems</b> <i>Made a presentation for AWS</i>	Feb 2025 – Jun 2025
<b>CS486: Principles of Distributed Computing</b> Managed course infrastructure, developed course project, conducted labs and tutorials, provided assignment solutions	Feb 2024 – Jul 2024
<b>CS452: Introduction to the science and the technology of services</b> Developed course project and conducted labs and tutorials	Sep 2023 – Feb 2025

## Education

<b>Ph.D. in Computer Science &amp; Engineering</b> <i>University of Crete</i>	Sep 2025 – Present Heraklion, Crete, Greece
<b>M.Sc. in Computer Science &amp; Engineering</b> <i>University of Crete</i> ☐ Grade: 9.21/10   Thesis: 10/10	Sep 2023 – Jul 2025 Heraklion, Crete, Greece
<b>B.Sc. in Computer Science</b> <i>University of Crete</i> ☐ Grade: 7.6/10   Thesis: 10/10	Sep 2019 – Sep 2023 Heraklion, Crete, Greece

## Publications

<b>Model Predictive Control of Internet Servers using Quantum Annealing</b> ☐ <i>5th IEEE International Conference on Autonomic Computing and Self-Organizing Systems - ACSOS 2024</i>
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## Skills

<b>Programming Languages</b> C, C++, Golang, Scala, Python, bash	<b>DevOps &amp; Infrastructure</b> Docker, Kubernetes, AWS, GitHub Actions, Prometheus, Grafana, Linux, Terraform, git
<b>Other Technologies</b> httpd, nginx, Locust, K6, gRPC, Spark	

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## Conferences Presented

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**ACSOS 2024**

*Model Predictive Control of Internet Servers using Quantum Annealing*  
University of Aarhus

Sep 2024

Aarhus, Denmark

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## Conferences Attended

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**ACSOS 2024**

*5th IEEE International Conference on Autonomic Computing and Self-Organizing Systems*

Aarhus, Denmark

**SummerSOC 2024**

*18th Symposium and Summer School On Service-Oriented Computing*

Heraklion, Greece

**EuroSys 2024**

*Received grant to attend EuroSys24 conference*

Athens, Greece

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## Programming Competitions

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**Future of Database Programming Contest 2024 (ATHENA Research Center with the support of Huawei)**

*problem of database query optimization: cardinality estimation*

- Rank: 12th / 60
- Score: 19.8814

**ICPC 2023**

- Local(GR): 41th / 87 (me and my team promoted to the next phase – ICPC Europe)

**Meta Hacker Cup 2022**

- Qualification Round: 4,533th / 27,604
- Round 1: 5,436th / 12,330

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## Hackathons

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**SAFE-CITIES Hackathon**

SAFE-CITIES is a European project aimed at safeguarding public spaces by offering

Jun 2024

specialized tools to assist security stakeholders' work

Hersonissos, Crete,  
Greece

Our solution: Reinforcement Learning based approach

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## Certificates

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**IBM DevOps & Software Engineer**

status: in progress

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## Languages

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- Greek

- English

- French