

# Achilleas Tzenetopoulos, Ph.D. Student

Athens, Greece

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| LinkedIn

| github.com/iwita

## SUMMARY

Computer Engineering Ph.D. Student, cloud-native open-source frameworks enthusiast, with a desire to learn new technologies. Interested in Serverless, Cloud Computing technologies, architectures and resource management.

## EDUCATION

### National Technical University of Athens

Ph.D. Student

- Cloud-computing: Interference analysis on shared resources
- Serverless Computing: Architectures and Resource Management

Athens, Greece

10/2020 to present

### National Technical University of Athens

Integrated Master of Engineering in Electrical and Computer Engineering

- Overall GPA 7.96 out of 10
- Majored in Computer Systems & Hardware, Computer Software and Management and Decision Support Systems
- Master Thesis: [Interference Aware Container Orchestration in Kubernetes Cluster](#)

Athens, Greece

12/2014 - 11/2019

### Athens University of Economics and Business

Department of Management Science and Technology

- Attended for 1 year, GPA: 9.12 out of 10, Dropped out

Athens, Greece

2012

### Gennadeios School

Apolytirion Scored top 2% in national university entry exams

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Athens, Greece

2012

## WORK EXPERIENCE

### National Technical University of Athens

Lab Systems Administrator, Teaching Assistant

### Institute of Communication and Computer Systems (ICCS)

Junior Research Associate

- [Evolve H2020](#): Integrating the High-Performance Computing, Cloud and Big Data worlds in a unique large-scale testbed
- [AI@EDGE H2020](#): A Secure and Reusable Artificial Intelligence Platform for Edge Computing in Beyond 5G Networks

Athens, Greece

November 2020 to present

Athens, Greece

December 2019 to present

### IBM

Application Developer Intern

- Worked in 3 Telco BI projects manipulating large amounts of data, applying development, and operations in a Unix environment using Oracle SQL and shell scripting

Athens, Greece

May 2018 to July 2018

## TECHNICAL SKILLS

- **Concepts:** Cloud/Distributed Computing, Container Orchestration, Serverless Computing
- **Technologies:** Docker, Kubernetes, Spark, Jenkins, Git, Cloud Computing and UNIX concepts, Open{whisk,FaaS}
- **Programming Languages:** Familiar with plenty of languages e.g C, Java, Go, Python, shell scripting
- Comfortable with **algorithms** and **data structures**
- **Networking knowledge:** Routing and Switching(CCNA)

## INTERNATIONAL CONFERENCE PRESENTATIONS

- **Paper: Interference-aware workload placement for improving latency distribution of converged HPC/Big Data cloud infrastructures**  
[SAMOS XXI, International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, 2021](#)
- **Paper: FaaS and Curious: Performance implications of serverless functions on edge computing platforms**  
[16th Workshop on Virtualization in High-Performance Cloud Computing \(VHPC'21\) held in conjunction with the International Supercomputing Conference - High Performance \(ISC\) 2021](#)
- **Keynote, Paper: Interference-aware Orchestration in Kubernetes**  
[15th Workshop on Virtualization in High-Performance Cloud Computing \(VHPC'20\) held in conjunction with the International Supercomputing Conference - High Performance \(ISC\) 2020](#)
- **Invited Paper: FADE: FaaS-inspired Application Decomposition and Energy-aware function placement on the edge**

## PUBLICATIONS / ACCEPTED PAPERS

- Tzenetopoulos A., et al. **EVOLVE: Towards Converging Big-data, High-Performance and Cloud Computing Worlds**, DATE 2022, Multi-Partner Projects (Accepted)
- Tzenetopoulos A., Masouros D., Xydis S., Soudris D. **Interference-aware workload placement for improving latency distribution of converged HPC/Big Data cloud infrastructures** International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS XXI
- Tzenetopoulos, Achilleas, et al. **FaaS and Curious: Performance Implications of Serverless Functions on Edge Computing Platforms**. International Conference on High Performance Computing. Springer, Cham, 2021.
- Tzenetopoulos, A., Masouros, D., Xydis, S., & Soudris, D. (2020, June). **Interference-Aware Orchestration in Kubernetes**. In International Conference on High Performance Computing (pp. 321-330). Springer.
- Ferikoglou, A., Masouros D., Tzenetopoulos A., Xydis S., Soudris D. **Resource Aware GPU Scheduling in Kubernetes Infrastructure**. PARMA-DITAM@HiPEAC 2021: 4:1-4:12

## AWARDS

- **Awarded grant** for the 17th International Summer School on Advanced Computer Architecture and Compilation for High-performance Embedded Systems, HiPEAC
- **Hellenic Foundation for Research & Innovation:** 3-year Scholarship for PhD Candidates (2022)

## CERTIFICATIONS

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- Cisco Certified Network Associate (CCNA) 943/1000

## MISCELLANEOUS

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- Open-Source contributor: [Serverless Workflow](#), [Podman](#)
- English language: C2-Proficiency
- Cisco Incubator program 6.0 participant
- National Track and Field [Champion](#) (13 National medals)
- Member of the Greek National Team (1x Silver Balkan Champion)
- Best athlete of my Track and Field club since its foundation (30 years) according to the contribution provided