

NIKOLAOS PAGONAS

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EDUCATION

National Technical University of Athens

Oct 2018 - Present

Master of Electrical and Computer Engineering

- **GPA:** 9.40/10.00
- **Related courses:** Parallel Processing, Distributed Systems, Operating Systems, Computer Architecture, Computer Networks
- **Thesis:** Scaling Out Shell Scripts Using Serverless (tentative)
- **Advisors:** Prof. Georgios Goumas (NTUA), Prof. Nikos Vasilakis (Brown University)

RESEARCH AND WORK EXPERIENCE

Brown University

Sep 2023 - Present

Visiting Research Intern

- **Advisor:** Prof. Nikos Vasilakis
- **Research Objective:** Improving the performance of shell scripts by running them on serverless infrastructure

Arrikto Inc.

Dec 2022 - Mar 2023

Software Engineering Intern

- **Objective:** Exploring how the company can serve PyTorch models more efficiently by utilizing KServe, a highly scalable machine learning deployment platform for Kubernetes

National Technical University of Athens

Oct 2022 - Sep 2023

Technical Support

- **Supervisors:** Prof. P. Tsanakas, Prof. E. D. Sykas
- **Objective:** Providing technical support for the university's OpenStack cloud infrastructure, as well as its coursework platform, both used extensively by all nine departments

Seed Robotics

Oct 2022 - Jun 2023

Robotics Instructor

- Guided school students through construction and programming of a plethora of robotics projects
- Served as coordinator and leader of the school robotics team in the annual municipal festival on science, arts, and sports

TEACHING EXPERIENCE

National Technical University of Athens

Mar 2022 - Jun 2022

Lab Assistant

- **Course:** Operating Systems
- **Professors:** N. Koziris, G. Goumas

National Technical University of Athens

Mar 2020 - Jun 2020

Lab Assistant

- **Course:** Programming Techniques
- **Professors:** N. Papaspyrou, A. Pagourtzis, G. Stamou, G. Goumas

- **Course:** Introduction to Programming
- **Professors:** S. Zachos, N. Papaspyrou, D. Fotakis

COMPETITIONS

14th National Electrical and Computer Engineering Conference 2023

- Won 1st place in the conference-wide programming competition

IEEEExtreme 2019-2022

- Annual international programming competition held by IEEE
- Proctor: Prof. N. Koziris
- Ranked 14th in Greece, 91st in Europe

SEMINARS

Mega-ACE Blockchain Seminar 2023

- Lectures and workshops on blockchain, cryptography and smart contracts
- Co-organized by Purdue University (Prof. V. Zikas) and the National Technical University of Athens (Prof. A. Pagourtzis)

PROJECTS

myCharts - Charts as a Service Spring 2023

- Web application that allows creating a variety of charts out of CSV data. Built with Docker and Apache Kafka in order to provide seamless deployment and high scalability.

Mockchain Fall 2022

- Blockchain-based cryptocurrency system implemented in Go and deployed on the cloud.

Extensive study of the parallel k-means algorithm Fall 2022

- Implementation of the k-means algorithm in OpenMP, CUDA, and MPI. Accompanied by thorough benchmarking in order to compare the three programming models.

Virtualized encrypted chat Fall 2021

- Terminal-based encrypted chat built with TCP/IP sockets for communication, cryptodev-linux for encryption, and virtIO for virtualization support.

SKILLS

Programming Languages	C, Python, Javascript, Shell, Java, Go
Platforms	AWS, Docker, Kubernetes, Apache Kafka, Apache Spark
Tools	Git, LaTeX

LANGUAGES

English	Fluent - TOEFL iBT 116/120 (C2)
Greek	Native

LAST UPDATED

October 14, 2023