

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 (top 2% of cohort)
- **Related courses:** Distributed Systems, Parallel Processing, Operating Systems, Computer Networks, Programming Languages, Computer Architecture
- **Thesis:** Scaling Out Shell Scripts Using Serverless (tentative title)
- **Advisors:** Prof. Georgios Goumas (NTUA), Prof. Nikos Vasilakis (Brown University)

RESEARCH AND WORK EXPERIENCE

Brown University

May 2023 - Present

Visiting Research Intern

- **Advisor:** Prof. Nikos Vasilakis
- **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

Volunteer 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

National Technical University of Athens

Oct 2019 - Jan 2020

Lab Assistant

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

SERVICE

17th European Workshop on Systems Security - EuroSec 2024
Web & Publication Chair

Apr 2024

COMPETITIONS

14th National Electrical and Computer Engineering Conference

2023

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

IEEE Xtreme

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.

KBeans

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.

encryptIO

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

December 11, 2023