

# NIKOLAOS PAGONAS

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## EDUCATION

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### National Technical University of Athens

Oct 2018 - Present

*Master of Electrical and Computer Engineering*

- **GPA:** 9.40/10.00
- **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

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### Brown University

May 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

*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

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### 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

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**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

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**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

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**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

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

## LANGUAGES

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

## LAST UPDATED

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November 30, 2023