Georgios Alexopoulos

 grgalex | grgalex | grgalex42@gmail.com

WORK EXPERIENCE

National Infrastructures for Research and Technology (GRNET)   05/2023 -
Cloud Engineer

Arrikto   07/2021 - 04/2023
Software Engineer

– Designed and implemented Kiwi, a GPU sharing/virtualization mechanism for Kubernetes and on-prem based on my diploma thesis
– Automated the build process of container images with an emphasis on caching and reproducibility

Arrikto   01/2020 - 06/2021
Software Engineer Intern

EDUCATION

2014 - 2021	Diploma (5-year degree - 300 ECTS - MEng equivalent) School of Electrical and Computer Engineering, National Technical University of Athens	[GPA: 8.72/10]
2023 - now	Ph.D. Department of Business Administration, National and Kapodistrian University of Athens Subject: "Developing Secure and Reliable Software" Supervisor: Dimitris Mitropoulos	

PUBLICATIONS

1. Thodoris Sotiropoulos, Georgios-Petros Drosos, Georgios Alexopoulos, Dimitris Mitropoulos and Zhendong Su. When your infrastructure is a buggy program: Understanding faults in infrastructure as code ecosystems. In Proceedings of the ACM on Programming Languages, OOPSLA (part of SPLASH 2024). To appear.

2. Georgios Alexopoulos and Dimitris Mitropoulos. nvshare: Practical GPU sharing without memory size constraints. In Proceedings of the 46th International Conference on Software Engineering (ICSE '24): Demonstrations Track. IEEE, May 2024.

SKILLS

Programming:	C [systems, concurrency, function interposition, IPC], Python, Golang, Bash, Assembly [8085, 8086, AVR]
Parallel programming:	CUDA, OpenMP, MPI
Orchestration:	Kubernetes, Kubeflow, Docker
Container Runtimes:	containerd, OCI spec [runc]
GPU systems:	Virtualization/sharing, NVIDIA stack
Networking:	TCP/IP, DNS, tcpdump

Miscellaneous: System Administration [Linux], Git, Google Cloud, AWS

Languages: Greek [native speaker], English [Cambridge C2 Proficiency], German [Goethe-Zertifikat B2], Chinese [HSK 3]