

YANNIS ZARKADAS

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PROFESSIONAL EXPERIENCE

- 2021 **Columbia University in the City of New York**, PhD Researcher
- Conducting research on eBPF and its applications in storage systems ([relevant paper](#)).
 - Advisor: [Asaf Cidon](#)
- 2019–2021 **Arrikto**, Software Engineer
- Responsible for contributing and representing Arrikto in [Kubeflow](#), a popular open-source Machine Learning platform.
 - Served as chair and tech lead of the [Manifests](#) and [Notebooks](#) Kubeflow Working Groups, leading a team of ~7 engineers across multiple companies.
 - Designed and implemented [Kubeflow's security and multi-tenancy architecture](#) from scratch, alongside people from Google and Cisco.
 - Developed and packaged [a complete Kubeflow distribution](#) to enable on-prem installations. Reduced installation time and related bugs by 90%.
 - Delivered 3 talks on Kubeflow in leading industry conferences alongside partners from Google and Cisco ([ODSC](#), [KubeCon Amsterdam](#), [Kubecon San Diego](#)).
- 2018–2019 **Arrikto**, Software Engineering Intern
- Worked together with CTO [Vangelis Koukis](#) on diploma thesis.
 - Designed and implemented a Kubernetes operator for Apache Cassandra, which was donated to the rook project ([link](#)).
 - Widely adopted, over 1 million Docker image downloads ([link](#)).
 - Designed and implemented a Kubernetes operator for Scylla ([link](#)), a Cassandra-compatible database written in C++. Scylla is currently using the operator to support customers deploying on Kubernetes.
 - Collaborated with engineers across 3 different companies (Arrikto, Upbound, ScyllaDB) to design, develop and test contributions across 2 open-source projects (rook, scylla).

EDUCATION

- 2021 **Columbia University in the City of New York** – New York, NY, USA
PhD in Computer Science
- Research Area Computer Systems, eBPF applications in storage systems
Advisor [Asaf Cidon](#)
- 2013–2019 **National Technical University of Athens (NTUA)** – Athens, Greece
M.Eng. in Electrical and Computer Engineering, GPA 8.78/10
- Specialization Computer Science, Networks and Finance (**Specialization GPA: 9.4/10**)

TECHNICAL SKILLS

Programming Languages:

- C/C++:** Research eBPF, developed in kernel level (character device drivers), worked with paravirtualization framework (VirtIO)
- Go:** Contributed to open sources projects ([Kubeflow](#), [rook.io](#), [Scylla Operator](#)) in the Kubernetes ecosystem
- Python:** Storage device management, [MiniKF](#), mainly used professionally at Arrikto.
- Node.js, Express, CSS, HTML:** Developed a platform for event reservation targeted at children end-to-end, in a team of seven students ([github](#))

Cloud Platforms:

- Kubernetes:** extensive knowledge in Kubernetes internals, design and implementation. Experienced in deploying, scaling and managing Kubernetes clusters.
- Google Cloud Platform (GCP):** extensive experience with Google Kubernetes Engine, Google Compute Engine as well as security-related services (oAuth, IAP).
- Kubeflow:** long-time contributor, across all MLOps components.