

Ioannis Zarkadas

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Experience

Google

RESEARCH INTERN IN SYSTEMS RESEARCH GROUP

San Francisco, CA

May 2023 - Present

Columbia University

PHD RESEARCHER

- Research into accelerating computer systems using eBPF.
- Advisor: Asaf Cidon

New York, NY

Sept. 2021 - Present

Arrikto

SOFTWARE ENGINEER

- Major contributor to Kubeflow, an open-source MLOps platform founded by Google. Tech lead of the Manifests and Notebooks Kubeflow Working Groups, overseeing technical direction and implementation.
- Designed and implemented Kubeflow's security and multi-tenancy architecture alongside engineers from Google and Cisco. This work enabled authentication, authorization, auditing and multi-tenancy for Kubeflow's core services (Notebooks, Pipelines, Serving).
- Developed the deployment and upgrade software for Arrikto's Kubeflow distribution, scaling it from the first small customer to multi-million accounts that deployed in 100s of clusters. Extended Kustomize and Git to fit our usage, enabling the rapid expansion of Arrikto's customer base.
- Delivered 3 talks on my work on Kubeflow in leading industry conferences alongside partners from Google and Cisco (ODSC, KubeCon Amsterdam, KubeCon San Diego).

Athens, Greece

Apr. 2019 - June 2021

Arrikto

SOFTWARE ENGINEERING INTERN

- Designed and implemented a Kubernetes operator for managing Scylla, a Cassandra-compatible database written in C++. Scylla is currently using the operator to support customers deploying on Kubernetes.
- Designed and implemented a Kubernetes operator for managing Apache Cassandra, which was contributed to the rook project. Project was widely adopted with over 1 million Docker image downloads.

Athens, Greece

Apr. 2018 - Mar. 2019

Skills

Programming

C, C++, Python, Go, eBPF

Cloud

Kubernetes, GCP, Security Architecture (OAuth, IAP)

Education

Columbia University

PHD IN COMPUTER SCIENCE

New York, NY

Sept. 2021 - Present

National Technical University of Athens

INTEGRATED BS/MS IN ELECTRICAL AND COMPUTER ENGINEERING

Athens, Greece

Dec. 2013 - Mar. 2019

Honors & Awards

2023 **Stavros Niarchos Foundation Scholarship**

2022 **Gerondelis Foundation Scholarship**

2022 **Best Paper Award for XRP paper, OSDI**

Publications

2024 **Accelerating Disaggregated Storage (NVMeoF) with eBPF, OSDI** (to be submitted)

First Author (full list not public yet - to be submitted)

2022 **XRP: In-Kernel Storage Functions with eBPF, OSDI**

Yuhong Zhong, Haoyu Li, Yu Jian Wu, Ioannis Zarkadas, Jeffrey Tao, Evan Mesterhazy, Michael Makris, Junfeng Yang, Amy Tai, Ryan Stutsman, Asaf Cidon