giuliafrascaria

PhD student

about

mail:giulia.frascaria
@gmail.com
github:giuliafrascaria
linkedin:giulia frascaria

languages

mother tongue italian
fluent english

programming languages

C, Python,
Assembly x86

hard skills

Linux Kernel,
Networks, Operating
Systems, Storage

soft skills

Public Speaking,
Presentations,
Teamwork, Technical
Writing

profile

PhD student exploring the field of storage and edge computing with the atLarge research group in distributed systems in Amsterdam. I am interested and passionate about low-level computer systems, operating systems and high-performance storage and networking research. Currently working on storage for edge computing

work experience

since 1/2021   **PhD Student**   *VU, Amsterdam*
PhD candidate with dr. Animesh Trivedi and dr. Lin Wang
Focus: storage for edge computing

since 9/2017   **Teaching Assistant**   *VU, Amsterdam*
Assistant in B.Sc. and M.Sc. courses of Storage Systems, Advanced Topics in Distributed Systems, Advanced Network Programming, Computer Architecture, Operating Systems, Compiler Construction, Computer Networks. Responsible for assistance and grading of assignments ans seminars
Technologies: C, C++, Python, x86 assembly

2/20-10/20   **Software Developer and Technical Writer**   *MonetDB, Amsterdam*
Core database developer for MonetDB. Responsible for the redesign and rewriting of software documentation and tech blog articles.
Technologies: C, Valgrind, Drupal, Python

11/18-4/19   **Research Intern**   *CNIT, Rome*
Research intern to perform a survey on Kubernetes usage in edge computing. Held a class and tutorial on Kubernetes in the M.Sc. course of Cloud Computing for the degree of Internet Engineering
Technologies: Python, Kubernetes

1/18-10/18   **Associate Engineer Intern**   *Fireeye, Amsterdam*
Software developer in the Global Services and Intelligence team. Responsible for the development and maintenance of an internal tool for malware indexing for business intelligence purposes.
Technologies: AngularJS, Python, ELK stack, Ansible, Vagrant

education

since 9/17   **M.Sc. Computer Science**   *VU and UvA, Amsterdam*
Major: Computer Systems Security, 1st class
Thesis: "e^{2}BPF: an Evaluation of In-Kernel Data Processing with eBPF"

2013-2017   **B.Eng. Computer Engineering**   *University of Tor Vergata, Rome*
Major: Software and Web Technologies, grade 104/110

publications

2020   **Griffin: A Storage Service for Granular Edge Applications**
G. Frascaria. *21st International Middleware Conference Doctoral Symposium (Middleware '20 Doctoral Symposium), December 7–11, 2020, Delft, Netherlands*

2019   **The atLarge vision on the design of distributed systems and ecosystems**
A. Iosup, L. Versluis, A. Trivedi, E. Van Eyk, L. Toader, V. Van Beek, G. Frascaria, A. Musaafir, S. Talluri. *2019 IEEE 39th International Conference on Distributed Computing Systems (ICDCS)*

trainings & achievements

2021   **ICTOpen Speaker**   Dutch Research Council, NWO
Presentation: *In-Kernel Data Processing with eBPF*

2020   **eBPF Summit 2020 Speaker**   The Linux Foundation
Presentation: *Can eBPF save us from the data deluge?*

2020   **Open Source Summit 2020 Speaker**   The Linux Foundation
Presentation: *BPF Tales, or why did I recompile the kernel just to average numbers?*

2018   **5G PhD School**   CNR, Rome
Topic: 5G architecture, applications and trials