ANISS MAGHSOUDLOU

PhD Candidate

- maganiss.github.ioSaarbrucken, Germany
- in maganiss



EXPERIENCE

Researcher (Ph.D. Student)

Max-Planck Institute for Informatics

- August 2018 ongoing
- Saarbrucken, Germany
- Designed, developed and employed a large-scale data-intensive network provisioning system for ISPs called FlowDNS.
- Contributed to the design and development of a large-scale network monitoring system for ISPs and IXPs called Flowyager.
- Enhanced VPN traffic detection rate by 300% using active measurements of the whole IPv4 address space and IPv6 hitlists.
- Advanced the understanding of internet traffic using port number 0 by performing the first active measurement on this port, combined with large-scale flow-level analytics.
- Held tutorials, co-organized courses, and advised seminars and theses.

Data Engineer

BENOCS GmbH

- March 2022 June 2022
- Berlin, Germany
- Deployed and customized my self-designed FlowDNS, implemented in Golang, system to align with customer requirements.
- Enabled real-time management of data using FlowDNS which was not possible using Kafka and ClickHouse without huge pre-assumptions.

Intern - Big Data Analytics

BENOCS GmbH

June 2021 - November 2021

- Berlin, Germany
- Learned the complexities of data management including the large scale of data, data dependencies, and EU data privacy in large ISPs.
- Designed and prototyped a system to manage and correlate two important sources
 of data in ISPs including Netflow and DNS live streams, trying multiple options,
 called FlowDNS. Python and Spark did not work, so I implemented the system in
 Go using Go routines and channels.

PUBLICATIONS

PAM'23 Characterizing VPN servers in the wild [submitted] **A. Maghsoudlou**, L. Vermeulen, I. Poese, O. Gasser

ACM CoNEXT'22 FlowDNS: Correlating Netflow and DNS Streams at Scale **A. Maghsoudlou**, I. Poese, O. Gasser, A. Feldmann.

PAM'21 Zeroing in on Port 0 Traffic in the Wild A. Maghsoudlou, O. Gasser, A. Feldmann.

PAM'20 Dissecting Internet Traffic on Port 0 A. Maghsoudlou, O. Gasser, A. Feldmann

IEEE TNSM'20 Exploring Network-Wide Flow Data With Flowyager S.J. Saidi, **A. Maghsoudlou**, D. Foucard, G. Smaragdakis, I. Poese, A. Feldmann

BIO

I'm a Ph.D. candidate at Max-Planck Institute for Informatics with extensive experience in designing and building data-intensive systems for network monitoring.

STRENGTHS

Problem-solver

Analytical

Detail-oriented

Data Modelling

Big Data

SKILLS

Python Bash SQL Go ClickHouse



LANGUAGES

English Persian German



EDUCATION

Ph.D. in Computer Science Saarland University

- **a** August 2018 February 2023 (exp.)
- Supervisor: Prof. Anja Feldmann
- Thesis: Towards Uncovering Hidden Internet Traffic Characteristics

M.Sc. in IT Engineering - Computer Networks

Sharif University of Technology

- **Sept 2014 January 2017**
- Thesis: Application of Software-defined Networking in Enterprise WLANs
- GPA: 4.0/4.0 (orig. 18.07/20)