Dr. Aniss Maghsoudlou

Staff Data Engineer

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EXPERIENCE

Staff Data Engineer

NEW YORKER Information Services International GmbH

📅 April 2024 – ongoing   📍 Berlin, Germany

- *Data Lake Project Lead*: leading and contributing to the development, maintenance, and enhancing data quality of our current Data Lake and designing and planning our new version of Data Lake through close communication with Data Science use cases.
- *CDC migration supervisor*: guiding the migration from a Scala-based CDC pipeline to Qlik Replicate/Compose.
- Supervising and contributing to enhancing documentation, and standardizing library and toolchain throughout the department.

Senior Data Engineer

NEW YORKER Information Services International GmbH

📅 May 2023 – March 2024   📍 Berlin, Germany

- Developed and maintained Data Lake, integrating the company's business knowledge into the Lake
- Enhanced data quality of our Data Lake through close communication with Data Science use cases, and the Data Governance team.

Researcher (Ph.D. Student)

Max-Planck Institute for Informatics

📅 August 2018 – April 2023   📍 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, more specifically in designing and developing the query engine.
- 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 multi-processing system in GoLang.to manage and correlate two important sources of data in ISPs including Netflow and DNS live streams.

BIO

I'm a Staff Data Engineer in NewYorker and Ph.D. in Computer Science with extensive experience in data engineering, data analytics, and building data-intensive systems for network as well as retail data.

STRENGTHS
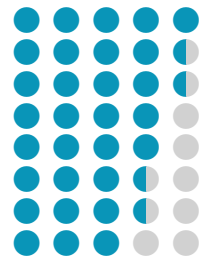
Multitasking   Problem-solving

Analytical

Data Engineering   Big Data

SKILLS

Python	●●●●●
Spark	●●●●◐
Git	●●●●◐
SQL / NoSQL	●●●●○
Bash	●●●●○
Airflow	●●●◐○
Jenkins	●●●○○
Kubernetes	●●●○○

LANGUAGES

English	●●●●●
Persian	●●●●●
German	●●●◐○

EDUCATION

Ph.D. in Computer Science

Saarland University

📅 August 2018 – December 2023

- 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)

PUBLICATIONS

PAM'23 *Characterizing VPN servers in the wild*
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