

#### PRINCIPAL DATA PLATFORM ENGINEER

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"Choose a job you love and you will never work a day in your life."

# **Summary**

Currently Principal Data Platform Engineer at Huq Industries. Working in on a daily basis with Google BigQuery, Terraform and Apache Airflow to ensure that our data pipelines run reliably 24/7. I also help clients to best access and use our products. Also, I lead the data scraping effort to collect data at scale for our enrichment data pipelines.

## Skills

**DevOps** GCP, Docker, Terraform, GitHub Actions, Scrapy Cloud

**Tools** Google BigQuery, Apache Airflow, Scrapy

**Programming** SQL, Python, LaTeX **Languages** Italian, English

# Work Experience \_\_\_\_\_

Huq Industries

London, United Kingdom

PRINCIPAL DATA PLATFORM ENGINEER

Jul. 2017 - Now

- Leading the data infrastructure design and development to support our data products as well the internal use.
- Design and development of our data scraping system.
- Liaison clients to best access and use our products.

Kinvolk Berlin, Germany

SOFTWARE ENGINEER Apr. 2016 - Jun. 2017

- · I contributed and participate in discussion to improve open source project such as: rkt, systemd, and Weave Scope.
- · Working on Weave Scope monitor plugins using eBPF for fast and lightweight in kernel network measurements.
- Experience with Kubernetes and OpenShift.

### **Presentation**

## **GDG Cloud London Meetup**

London, United Kingdom

Presenter for <Google bigQuery a Data Journey>

Aug. 2019

- Introduce Google BigQuery using Huq Industries experience with geospatial big data.
- Outline why we chose BigQuery over other solutions.
- · Hands-on example using BigQuery UI.

### **GDG Cloud London Meetup**

London, United Kingdom

Presenter for <CLOUD COMPOSER - THE SHORT-LIVING TASKS ANNIHILATION>

Aug. 2019

- Introduce Apache Airflow and Google Cloud Composer.
- Introduce the issue of having may short-living tasks.
- Show a solution to mitigate the problem.

LinuxCon Europe Berlin, Germany

PRESENTER FOR < BUILDING CONTAINER IMAGES>

Oct. 2016

An hands-on presentation on how to build container images with different tools.

**systemd.conf**Berlin, Germany

PRESENTER FOR <TIPTOEING INTO THE SYSTEMD DEV COMMUNITY>

Sep. 2016

• Firsthand experience entering the systemd development community and introduction to newest systemd V231 features.

# **Education**

University of Pisa Pisa, Italy

B.Eng. IN COMPUTER SCIENCE AND ENGINEERING

2006 - 2011

• Thesis: Performance evaluation of an algorithm for dynamic management wireless channels in ad-hoc networks.

University of Pisa Pisa, Italy

M.Eng. in Computer Science and Engineering

2011 - 2015

- · Thesis: Design and development of an active probing technique to validate the "source IP address" heard field in a live stream of IP packets.
- · Visiting grad student at CAIDA (Center for Applied Internet Data Analysis) at the University of California, San Diego.

# **Extracurricular Activity**

### Python 101 for high school

La Spezia, Italy

LECTURER

Mar. 2016 - Apr. 2016

• I taught fundamental programming using Python to students at the scientific high school Antonio Pacinotti, La Spezia, Italy.

#### IIJ-II (Internet Initiative Japan - Innovation Institute)

Tokyo, Japan

RESEARCH INTERN

Sep. 2015 - Oct. 2015

- Working on a project to securely monitor path quality.
- I developed a tool to perform traffic summaries with the goal of detecting SLA violation such as packet delay and packet drop, as well as packet modifications.

### SecLab - University of California, Santa Barbara

Santa Barbara, United States

RESEARCH INTERN

Mar. 2015 - Aug. 2015

- · Worked on a project to identify privacy information leakages from network traffic in mobile phone application.
- This project layout the foundation for the "Obfuscation-Resilient Privacy Leak Detection for Mobile Apps Through Differential Analysis" NDSS2017 publication.
- · Contributed to organize and run the iCTF, DARPA challenge on finding vulnerabilities on Android mobile application, and DEFCON CTF.

### **CAIDA, Center for Applied Internet Data Analysis**

San Diego, California, United States

VISITING GRAD STUDENT

Mar. 2015 - Aug. 2015

• I worked on my Master Thesis on internet measurements and IP address validation as part of the "IODA – Detection and Analysis of large-scale Internet infrastructure Outages" project funded by NSF.