

Alessandro Puccetti

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. My main focus is to ensure that our data pipelines and data products reliability 24/7. I work with Google BigQuery, dbt, Terraform, and Apache Airflow to design and develop data pipelines for internal use and for client products. I lead the data scraping effort to collect data at scale for our enrichment data pipelines.

Skills

Cloud Google Cloud Platform, Terraform Cloud, GitHub Actions, Scrapy Cloud

Tools Google BigQuery, dbt, Apache Airflow, Scrapy, Docker

Programming SQL, Python, Terraform, LaTeX

Languages Italian, English

Work Experience

Huq Industries

London, United Kingdom

PRINCIPAL DATA PLATFORM ENGINEER

Jul. 2017 - Now

- Design and development of data governance.
- Lead the company data infrastructure design and development.
- Bring to production client data products.
- 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 many 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

B.ENG. IN COMPUTER SCIENCE AND ENGINEERING

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

Pisa, Italy

2006 - 2011

University of Pisa

M.ENG. IN COMPUTER SCIENCE AND ENGINEERING

- 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.

Pisa, Italy

2011 - 2015

Extracurricular Activity

Python 101 for high school

LECTURER

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

La Spezia, Italy

Mar. 2016 - Apr. 2016

IJJ-II (Internet Initiative Japan - Innovation Institute)

RESEARCH INTERN

- 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.

Tokyo, Japan

Sep. 2015 - Oct. 2015

SecLab - University of California, Santa Barbara

RESEARCH INTERN

- 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.

Santa Barbara, United States

Mar. 2015 - Aug. 2015

CAIDA, Center for Applied Internet Data Analysis

VISITING GRAD STUDENT

- 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.

San Diego, California, United States

Mar. 2015 - Aug. 2015