

Lorenzo David **Software Engineer**

About

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Double Degree M.S. Politecnico di Torino, EURECOM and Telecom ParisTech

Graduated in Computer Security and Computer Networking with strong interest for distributed systems.

I carried out an experience in the Silicon Valley within a SDN Startup. This context enriched my vision on new technologies and allowed me to learn from brilliant people.

I am currently working for PLUMgrid.

Professional Experience

2015 (July - Current)

Software Engineer at PLUMgrid Inc.

Incubated project on a Hybrid Cloud controller

- Designed and Implemented an Identity Access Management (IAM) module
 - Authentication protocols (SAML, OpenID Connect, LDAP)
 - Authorization (RBAC)
 - OpenStack Keystone to Keystone Federation, Amazon IAM
- OpenStack and PLUMgrid infrastructure deployment
 - Automation tools: Ansible, Puppet, in-house tools (Python, Bash)
 - Linux SysAdmin: LXC, LXC networking, iptables
 - PaaS: Google App Engine, AppScale

Santa Clara, USA



Education

2014 - 2015

Master in Computer Security (2nd Year) at EURECOM

Courses focusing on System and Networking Security
Semester project

- "PryTag: privacy preserving aggregation of data" (19/20)
Implementation and benchmarking of a distributed cryptographic protocol in C, Python and OCaml for an ARM embedded system using Xen virtualization

Final thesis

- "Identity Access Management for Cloud Computing" (18/20)
Research oriented to Federated Hybrid Cloud

Sophia Antipolis, France



2013 - 2014

Master in Computer Networking (1st Year) at Politecnico di Torino

Courses focusing on Networking and Software Engineering

- Networking: IPv6, MPLS, VPN, QoS, socket programming.
- Data base: data warehouse, data mining.
- System and device programming (.NET semester project).
- Programming: Assembly, OpenCL, C++, C#, operating research (Java).

Turin, Italy



2010 - 2013

Bachelor at Politecnico di Torino

Grade: 110/110 cum Laude

Algorithms (C), Computer Architecture, OS (Linux), Networking, DB, Object oriented programming (Java).

Turin, Italy



Projects

2014 Fall

Mouse and keyboard sharing for Windows

Supervisor: Malnati, G.

Development of an application for remote pc sharing focusing on robustness and security.

Keywords: Microsoft Visual Studio, C#, .NET, WPF, ssl.

2014 Spring

Live migration of Linux Containers

Supervisor: Risso, F.

Theoretical and practical state of art's analysis and comparison of virtualization techniques that support live migration.

Keywords: hypervisor, container, LXC, Dockers, DMTCP, CRIU.

Languages

Native **italian** speaker passionate about languages.

English

CAE - C1 | French

C1 | German

ÖSD - B1