

# Lorenzo David **Software Engineer**

## About

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Master graduated in Computer Security and Computer Networking with strong interest for cutting-edge technologies that enable modern distributed systems.




I am currently working for PLUMgrid, an SDN Startup in the Silicon Valley.

I got selected for H-1B Working VISA starting from October 2016.

## Professional Experience

- 2015 (July - Current) **Software Engineer at PLUMgrid Inc.** Santa Clara, USA 
- I have been working with two main teams, using an agile methodology with task tracking, daily standups and code requirement (specification documents, unit tests, code reviews).
1. Federated Hybrid Cloud controller
    - Designed and Implemented an Identity Access Management (IAM) module
    - OpenStack and PLUMgrid infrastructure deployment (CI Pipelines, Automation tools, Software distribution)
  2. Live Memory tracking for production systems
    - Low overhead debugging and profiling tool for C++ programs.
    - The project involved in-depth researches on compilers, memory management and low level C programming.

## Education

- 2014 - 2015 **Master in Computer Security (2nd Year) at EURECOM** Sophia Antipolis, France 
- Highly specialized Master courses in Computer Security:
- System and Network Security
  - Forensics
  - Malware and binary analysis
  - Image security and watermarking
  - Security of distributed systems
  - Side channel attacks
- Semester project
- "PryTag: privacy preserving aggregation of data"  
Distributed cryptographic protocol in C, Python and OCaml for MirageOS (Unikernel Operating System).
- Final thesis
- "Identity Access Management for Cloud Computing"  
Research oriented to Cloud Federation
- 2013 - 2014 **Master in Computer Networking (1st Year) at Politecnico di Torino** Turin, Italy 
- Grade: 110/110 cum Laude
- Courses focusing on Networking and Software Engineering
- Networking: IPv6, MPLS, VPN, QoS, socket programming.
  - Data analysis: data warehouse, data mining (Hadoop, Pentaho).
  - System and device programming (.NET semester project).
  - Programming: Assembly, OpenCL, C++, C#, Python, Javascript, operating re-search (Java).
- 2010 - 2013 **Bachelor at Politecnico di Torino** Turin, Italy 
- Grade: 110/110 cum Laude
- Algorithms and Data Structure (C), Computer Architecture, OS (Linux), Networking, DB, Object oriented programming (Java).

## 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.

State of art's analysis and comparison of virtualization techniques that support live migration.

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

2013 Fall

### **A Comparison of Graphics Processor Architectures for RFID Simulation**

IEEE Paper

Supervisors: Montrocchio, B. Ferrero, R.

Two popular frameworks for general-purpose computing on GPU are considered in the comparison, i.e. CUDA and OpenCL, and distinct implementations are provided for them, highlighting their differences in code optimization and performance.

Keywords: GPU, CUDA, OpenCL.

## Languages

Native **italian** speaker passionate about languages.

**English**

**CAE - C1 | French**

**C1 | German**

**ÖSD - B1**