Alessio TRIVISONNO
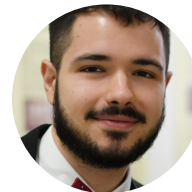
System & Network Administrator | Security Expert | Back-end Developer

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i Born on 25/08/1995 at Campobasso (CB)

I am a Computer Science undergraduate at the University of Bologna. Captured since the beginning of my career by the field of System Administration, I cultivated this passion during these years of study. I volunteered in a student group called ADMStaff, where I administrated together with other students a small network of servers which offer Best Effort services to other CS students. I also developed and maintained web applications, mostly focusing on the Back-end layer. At last, during the last year of my BSc I found myself interested in the field of Network Security, which was the main topic of my dissertation.

☰ COMPETENCES

Programming	**C**, **C++**, **Python**, **Bash**, C#, GO, Java, LaTeX, Javascript, CSS, HTML
Frameworks	Django, **Flask**, Angular, ELK, .NET, Metasploit
Database	**MySQL**, PostgreSQL, **Elasticsearch**, MongoDB, MSSQL
Development tools	**IntelliJ Idea**, Eclipse, git, vim
Operating Systems	Mac OS X, Windows Server, Windows (7, 8, 8.1, 10), **GNU Linux** (Debian, Arch, Ubuntu), Free BSD
Linux Server Administration	LDAP, Apache, Nginx, Postfix, NFS, SNMP, **sFlow**, NetFlow, OpenVPN, OpenSSH, BIND, Systemd, **Docker**
Others	Making (Raspberry Pi, Arduino), Electronics, Home Automation and Security

☞ EDUCATION

Current	MSc in Cybersecurity, EIT Digital Academy, University of Trento, Trento, Italy
2018	BSc in Computer Science, Alma Mater Studiorum Università di Bologna, grade 100/110 (B)
2014	Degree of Scientific High School, Liceo Scientifico Statale A. Romita, Campobasso, grade 86/100
2013	IELTS Academic, Center of English Studies, Dublin, overall score 6.0

☞ EDUCATIONAL EXPERIENCES

Jan 2016 Sep 2016	**C Developer, OPERATING SYSTEMS PROJECT, University of Bologna**

Development of the kernel for the Kaya operating system, an Open Source project for the ARMv7 architecture.
> System Programming
> Scheduler implementation
> I/O Handler implementation

`C` `System Programming`

Jan 2016 Sep 2016	**Back-end and Front-end Developer, WEB TECHNOLOGIES PROJECT, University of Bologna**

Development of the web platform EasyRash for the paper revision in scientific conferences.
> Back-end development with the Python framework Flask
> Development of MongoDB database schema and interface
> Methods for secure authentication token based
> Development of REST API
> Front-end Angular Material development

`Python` `MongoDB` `Flask` `REST` `Angular`

Sep 2016 Mar 2018	**System Administration, ADMSTAFF, University of Bologna**

Administration of a small network of servers offering BES services to other CS students. Hands-on experience regarding installation and maintenance of several Open Source software like Mail Server Postfix, BIND DNS Server, GitLab CE, LDAP, NFS, 802.1x, Radius.

`Linux` `Networking`

Sep 2017 Mar 2018	Analysis of an Intrusion Detection System based on Packet Sampling, BSc DISSERTATION, University of Bologna Performance evaluation of a monitoring system which uses the sFlow sampling technology and the IDS Suricata. › Analysis of requirements and critic points › Design of the proposed solution › Development of a software suite for testing and simulation (in C, Bash, Python) › Extensive testing of the System › Elasticsearch database design and feeding › Analysis of testing results with the software Kibana and statistical evaluation Linux Networks sFlow NetFlow Elasticsearch Kibana C Python Bash
May 2018 Jun 2018	.NET Development Course, OVERNET EDUCATION, Bologna, Italy Technical course on .NET framework, C# and MSSQL databases › MSSQL : TSQL, ER diagrams, schemas, tables, index, security and SQL Server Management Studio › C# & .NET : OO Programming, Entity Framework, LINQ, ASP.NET MVC, MVVM, WPF › Extras : Agile, Integration Test, Unit Test, TDD MSSQL TSQL C# .NET Agile git

💼 WORKING EXPERIENCES

Mar 2018 Feb 2017	System Administrator, BIGEA DEPARTMENT, University of Bologna › Design and Installation of a networked storage system › Maintenance of Linux Servers › Installation and support on GIS software Apache OwnCloud MySQL Redis LDAP Microsoft Active Directory GlusterFS Linux
Feb 2018 Oct 2017	DevOp | Internship, LABORATORI GUGLIELMO MARCONI, Sasso Marconi, Bologna Development of a Python program for the accounting of the Service Level Agreement on a ticketing system OTRS › Integration and reverse engineering of the MySQL database of OTRS › Development of a Python library for the fine tuning of time accounting for tickets › Documentation and Installation in production Linux Python MySQL OTRS
Jun 2018 Aug 2018	IoT Developer, Network & System Administrator, NETSERVICE S.P.A., Bologna Work as a System and Network Administrator in the ICT. › Security Information and Event Management planning and pilot deployment on docker containers › Network administration on a complex corporate multihomed network › IoT Developer in a small project with Raspberry Pi and sensors IoT Networks SIEM Docker Raspberry Pi Python vmware

💼 OTHER EXPERIENCES

› Private lessons of Computer Science
› Design and Installation of Surveillance Systems
› Design and maintenance of websites (HTML, Flash, Wordpress)

🌐 LANGUAGE SKILLS

Italian ●●●●●
English ●●●●○
French ●●○○○

✚ Plus

Furthermore during my academic career, especially during the projects realization, I developed the following skills :

> Excellent Problem Solving attitudes
> Good relational skill
> Excellent team-work and Project Management attitudes
> Strong passion for all the ICT field
> Strong motivation and deadline observance

Others :

> Driving license
> Openness for travel experiences, both working and academic

Other Interests

Penetration testing :	Metasploit, Kali Linux
Making	DIY Projects for Home Automation e Surveillance

💬 Links

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