



Matteo Salonia

GNU/Linux Sysadmin & full-stack developer

- ▶ Born on 8 Dec 2004
- ▶ Living in Ragusa (RG), Italy
- ▶ Graduated with 98/100

Contacts

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Projects

- 🔗 **AWS resources (Italian)**
Website that provides vast info regarding AWS services & fundamentals
- 🔗 **OpenAlias WebUI**
Website that allows the retrieval of OpenAlias & DNSSEC records for any domain name
- 🔗 **Kernel**
My custom Linux Kernel builds, containing a script that facilitates Kernel selection, patching & optimization process, compilation, and installation

Languages

Italian: Native

English: B2 CEFR Certification

Biography

I have solid experience with GNU/Linux servers & web development. Since the age of 13 I have developed a **strong interest in computer science**, dedicating a lot of time to exploring, analyzing, and **understanding the functionalities of operating systems, networks, websites**, and technology in general. My experience includes **IT infrastructure design, system configuration & optimization**, as well as **solving complex problems**.

Throughout my career I've developed a solid ability to **manage and organize my work independently**, facing challenges with **resourcefulness**, and overcoming difficulties with **resilience**, even in moments of greatest stress. My experience in teamwork has taught me the **importance of collaboration** to **achieve common goals** and to **actively listen to the needs of others**, while my leadership skills have allowed me to **guide and motivate my team towards success**. I'm always **attentive to details**, approaching each task with **precision and care**. These experiences have shaped the person I am today, ready to **face new challenges** with **determination and passion**.

Certifications

In November 2024 I won a scholarship for the AWS re/Start program, which I participated in at the Edgemony training school. I'm currently studying to obtain the **Solutions Architect Associate** certification.



AWS Certified Solutions Architect Associate (Ongoing)

This certification demonstrates skills in **design & implementation** of **secure, scalable, resilient, and cost-optimized architectures**, following **architectural best practices**, and translating **business requirements** into **effective technical solutions**.



AWS Certified Cloud Practitioner (February 2025)

This certification demonstrates mastery of **cloud computing** principles. This credential examines the components of the **AWS ecosystem**, including an **analysis** of the **reference architectures**, a **broad range of services**, as well as **established best practices** for **security and regulatory compliance**.



Hurricane Electric Certified IPv6 Sage (March 2025)

This certification verifies proficiency in establishing **full IPv6 connectivity**, running a **web server**, maintaining an **email setup**, and managing both **forward** and **reverse DNS configurations over IPv6**.

Experience

- AfkarTelecom (Madrid, Spain)

08/2025 – 11/2025

Here I led a project involving several **large companies**, including **Arsys** and **Krone Group**. The project involved an in-depth analysis of approximately **60 servers**, in both **development** and **production** environments, to improve their **operational efficiency**. I also analyzed **clusters** of various applications, including **Apache Cassandra**, **Apache Kafka**, and **MongoDB**. In the final report of my analysis, written in **L^AT_EX**, I also included detailed statistics exported from **Grafana** and **Prometheus** as **graphs**. The report provided a clear overview of the results obtained, highlighting areas for improvement and the impact on existing infrastructure.

Education

2020 – 2023

Corporate Information Systems (Sistemi Informativi Aziendali)

ITC Archimede, Modica (RG)

During these years I further developed my **computer skills**, studying & practicing with various **programming languages**, **full-stack development** (front-end & back-end), management of **GNU/Linux servers**, and the **protection** of these. I graduated as an **Accountant & Computer Expert** (Ragioniere Perito Informatico), with a score of **98/100**.

2018 – 2020

Administration, Finance & Marketing (Amministrazione, Finanza e Marketing)

ITC Archimede, Modica (RG)

During these years I gave importance to the acquisition of linguistic skills in the English language.

2018

Cambridge English

During 8th grade I attended the “**Cambridge English**” private school, where I received the **B2** certification.

Awards

- **Merit-based scholarship**

Scholarship awarded in recognition of my **academic achievements**, and my constant commitment to **pursuing excellence**.

- **CONI Giovani Medal**
“Giochi della gioventù”

Awarded for having **won the championship**, and for taking part in **team sports**

- **2 Trophies “Leggere = Crescere”**

Awarded as a result of **reading the greatest amount of books**, with subsequent **personal and academic development**

- **Omicron Elettronica** (Ragusa, Italy)

07/2023 – 10/2024
06/2022 – 09/2022

With **Omicron Elettronica** I was able to explore the world of **alarm** and **video surveillance systems**, while also working with **electrical systems**, **data networks**, **rack cabinets**, and **cable laying**, actively collaborating with different teams. Here I also managed several **cloud infrastructures**, with providers such as **AWS**, **Aruba**, **DigitalOcean**, **Vultr**.

Skills

Over the years I have undertaken a path of **autonomous learning**, which has allowed me to **significantly expand my skills** in various areas. Here are some of my skills:

- **GNU/Linux:**

- **Kernel configuration & compilation** + **initramfs** creation
- **Systems optimization**
- **Bootloader** configuration (**GRUB2**)
- **Server** administration (**Amazon Linux**, **Debian**, **Gentoo**, **RHEL**)
- **IPS/IDS & Firewall**: **Suricata**, **ufw**, **iptables**
- **Fail2ban** integration with **AbuseIPDB**
- **Bash & POSIX sh** script creation
- Automation with **Ansible**, **Makefile**, **Cron**, **OpenRC** & **systemd** services
- Local **DNS** server with **unbound**

- **Cloud Computing:**

- Management of **cloud infrastructures**
- Implementation of **best practices** in various scopes
- Communication between **on-premises & cloud environments**
- **High availability**

- **Web servers:**

- **IPv4 & IPv6** support
- **nginx** configuration & optimization + **eBPF**
- Implementation of **security policies** and **SSL certificates**
- **HTTP2** and **HTTP3/QUIC** (**GSO**, **0-RTT**, **Address Validation**)
- **Rate-limiting**
- Content **compression**

- **Domain names & DNS:**

- **Zone & record** administration
- **DNSSEC** configuration & status checking
- Custom **DDNS** client implementation via **API calls**

- **Website development:**

- **Frontend**: **HTML**, **CSS**, **vanilla JS**
- **Backend**: **PHP**, **Laravel**

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