Filippo Visconti

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EXPERIENCE

Bytewise Ltd. Rome (Italy)

System Engineering Intern *Mar 2022 – June 2022*

- Designed and installed a **cyber defense system** for a small business, including assembling the hardware.
- Installed and configured **servers**, for services like firewall, proxy, reverse proxy, DNS, DHCP, VPN, IDS, IPS.
- Managed hypervisors (**Proxmox VE** and ESXi), deployed virtual machines and **LXC** and **Docker containers**
- Installed and **managed** Mikrotik **routers and switches**, configured VLANS, site-to-site WireGuard VPNs.
- Worked on **RHEL** and Debian-based ditributions.
- Performed **basic penetration testing** using nmap, Metasploit, OpenVAS, dirbuster, and others.

EDUCATION

Eidgenössische Technische Hochschule Zürich Zürich (Switzerland)

Master of Science in Computer Science *Sept. 2022 – exp. Aug. 2024*

- Major in **Secure and Reliable Systems** - Minor in **Networking**
- Developed a tiny <u>ACME client</u> in Python, implementing JOSE cryptography from scratch.
- Implemented an optimized algorithm for worst-case joins in SQL databases in C, with a final speedup of 20%.
- Designed and developed <u>a fuzzing tool</u> for Ansible modules using Python and Docker containers.

Università degli Studi Roma TRE Rome (Italy)

Bachelor of Science in Computer Engineering *Sept. 2019 – July 2022*

- Graduated with **110/110 cum Laude**
- Final thesis: *"Realization of a cyber defense system: analysis of VPN solutions."* under the supervision of Prof. Maurizio Patrignani

Pugwash District High School Pugwash (Canada)

Canadian High School Diploma *Sept. 2017 – Jun. 2018*

- Graduated with Honors.

PERSONAL PROJECTS

FillYourTeam! Rome (Italy)

Public repository available <u>here</u> *Oct. 2021 - June 2022*

- Developed a multi-platform app using Xamarin framework and MVVM architecture.
- Mentored and collaborated with 2 team members.

Programming Languages

Details

- **C**: POSIX syscalls, threads and processes management, affinity sets, parallel programming, SIMD instructions
- Java, C♯, **Python** and <u>basics</u> of: OCaml, Go, HTML, CSS, PostgreSQL

OTHER EXPERIENCES

Talks Rome (Italy)

Seminar speaker at Università degli Studi Roma TRE *March. 2023, January 2024*

- Intro to Stack Overflows and Buffer Overflows - March 2023
- Intro to Hardware Vulnerabilities (Rowhammer, Meltdown) - January 2024

Università degli Studi Roma TRE Rome (Italy)

ICT Support and Management *Mar 2021 – June 2022*

- Managed accounts and software licenses.
- Provided support through a technical helpdesk.

LANGUAGES, SKILLS AND INTERESTS

Languages: Italian: mother tongue. English: excellent (C2). Spanish: fair.

Hobbies: music production, sailing.