

# Quintavalle Pietro

IT Support-certified Economics student with 5+ years of hands-on experience in system administration, virtualization (Proxmox, Hyper-V), and network infrastructure. Skilled in scripting, automation, and server deployment across Windows and Linux environments. Seeking a Junior SysAdmin role to contribute reliable, scalable solutions in enterprise systems.

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## EXPERIENCE

### ***Freelance, Ticino Switzerland — Systems Engineering Consultant***

January 2020 - Present

Delivered end-to-end IT infrastructure and systems engineering services to multiple clients, with a focus on server deployment, virtualization platforms (Proxmox, Hyper-V), and network architecture. Built and maintained 6–10 production-grade servers with 90%+ uptime using automation tools and Infrastructure as Code (IaC) principles. Designed and implemented VLAN-based network topologies, firewall policies, and secure remote access via VPN (Tailscale). Created Bash and PowerShell scripts for routine maintenance, monitoring, and backup operations. Managed Windows Server environments, including Active Directory, Group Policy, Office 365 integration, and disaster recovery solutions. Consistently delivered scalable, secure, and high-availability infrastructure tailored to client needs.

## EDUCATION

### ***USI Università della Svizzera italiana, Lugano — Bachelor's Degree in Economics (English Stream)***

September 2024 - Present

Currently pursuing coursework in microeconomics, macroeconomics, statistics, accounting, and quantitative methods. Developed strong analytical skills through statistical analysis and management studies, with a particular interest in finance.

### ***USI Università della Svizzera italiana, Lugano — Bachelor of Science in Informatics (English Stream)***

September 2022 - June 2024

2 years completed before switching to Economics

Completed comprehensive coursework in software engineering and AGILE methodologies, statistical and data analysis, data structures and algorithms, object-oriented programming, database systems, and web development. Gained proficiency in programming languages including Python, Java, JavaScript, and C++.

### ***Scuola cantonale di commercio, Bellinzona — Maturità Cantonale & AFC Economics***

September 2018 - June 2022

Achieved: 4.5/6 (Maturità), 5/6 (AFC) – Above average performance

## SKILLS

System administration  
Virtualization & Cloud  
Operating systems  
Python programming  
Web development  
VLAN configuration  
Firewall management  
Network troubleshooting  
Backup & recovery  
Monitoring & management  
Git version control  
Bash/PowerShell scripting

## CERTIFICATIONS

Google Data Analytics  
Professional Certificate  
Google IT Support  
Professional Certificate

## LANGUAGES

Italian: Native  
English: Fluent  
German: Conversational  
Spanish: Basic  
Norwegian: Basic

## INTERESTS

Computer Hardware  
Economics & Finance  
Web Development  
Literature  
Photography

## PROJECTS

### **Enterprise Proxmox Infrastructure — Client Virtualization Stack** *(Professional client project)*

Deployed a full single-node virtualization environment using Proxmox VE, with structured rack cabling, DDNS, and NGINX reverse proxy for secure service exposure. Integrated Tailscale VPN for remote management. Configured Docker containers and LXC instances to run Nextcloud, Jellyfin, and TrueNAS. Enabled centralized infrastructure visibility using Grafana, Prometheus, and a Homarr dashboard.

*Tools: Proxmox VE, NGINX, Docker, LXC, Grafana, Tailscale, DDNS, TrueNAS, Linux*

### **Multi-User NAS Solution — Shared Storage Infrastructure** *(Professional client project)*

Designed and deployed a RAID 10-based NAS system supporting 9 users as a self-hosted cloud storage alternative to Google/iCloud. Configured SMB/NFS shares, access control lists (ACLs), and failover mechanisms. Automated snapshotting and rsync-based backups for a reliable, high-availability storage solution.

*Tech stack: RAID, TrueNAS, rsync, SMB/NFS, systemd timers, ACLs, Linux*

### **Custom Gaming Systems — Hardware Engineering** *(Professional client project)*

Engineered and delivered 12+ custom PC builds, including high-performance gaming rigs and workstation-grade machines. Focused on component compatibility analysis, PSU sizing, airflow and thermal management, and BIOS/driver optimization for performance tuning.

*Skills: Hardware integration, BIOS setup, thermal profiling, component sourcing, system benchmarking*

### **Personal Homelab Infrastructure — Self-hosted Environment** *(Personal project)*

Replicated enterprise-level infrastructure architecture in a personal homelab, using Proxmox, Docker, and LXC. Focused on Infrastructure as Code (IaC) principles, virtual machine provisioning, monitoring, and container orchestration. Demonstrated ability to standardize and document reproducible deployment procedures.

*Tools: Proxmox VE, Bash, Tailscale, Grafana, Docker, LXC, IaC concepts*

### **Valgo — Educational Platform** *(Personal project)*

Developed a web-based algorithm visualization tool using Next.js, React, and Tailwind CSS. Focused on front-end performance and UI interactivity to demonstrate algorithmic logic in real-time.

*Stack: TypeScript, React, Next.js, HTML/CSS, GitHub Pages*

### **Finance Tracker Application** *(Personal Project - In Development)*

Designing a simple and intuitive personal finance app built with Django (Python) and SQLite, focused on clarity, control, and peace of mind. The app helps users track expenses, follow budgeting frameworks like the 50/30/20 rule, and apply Conscious Spending and The Boring Rule for investing. Features include category-based expense tracking, budget summaries, and clear data visualizations.

*Tech: Django, Python, SQLite, Chart.js, HTML/CSS, JavaScript*