

Rarysson Pereira

Infrastructure & IT Support Analyst

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SUMMARY

Generalist IT professional working across infrastructure, technical support, networking and security, in both on-premise and multi-cloud environments. Currently taking a postgraduate specialization in Scientific Computing for Industry, with a thesis on predictive maintenance for servers — the shift I am building towards, from reactive infrastructure operations into data engineering and AIOps.

EXPERIENCE

Junior Infrastructure Analyst (Tier 1)

Nov 2025 — Present | Florianópolis, Brazil

Chipus Microelectronics

- On-site and remote support for staff, covering hardware (laptops, workstations and printers) and operating systems — Windows 11, legacy machines on Windows 10 and 8, and Linux.
- Administration of the engineering workstations used in the integrated circuit design flow: EDA tools (Synopsys and Cadence), license servers and the NFS mounts holding the shared working areas.
- Took part in rolling out Univention Corporate Server (UCS) as the central directory service — LDAP, Kerberos and a Samba AD domain — including the migration away from legacy NIS and the joining of Debian clients to the domain. Wrote the technical documentation for the whole process, in three guides: fundamentals, server installation and client configuration.
- Migrated the UniFi controller from version 7 to version 10, with prior validation in a lab, a backup-based rollback plan and a documented procedure.
- Administration of the FortiGate firewall (Fortinet), the FortiClient remote access VPN and the local network on Ubiquiti equipment.
- Administration of Google Workspace, email accounts, DNS zones on Cloudflare, and maintenance of the company's WordPress site.
- Support for the internal version control and documentation stack (SVN, Redmine and a wiki), and support for the management of Brazilian ICP-Brasil digital certificates (A1 and A3 on hardware tokens) used by the finance, administration and HR teams.

Infrastructure Analyst

Jul 2024 — Jul 2025 | Santa Catarina, Brazil

Serverdo.in

- Managed and tuned Linux servers (Ubuntu, CentOS), adjusting MySQL, PHP, Redis and Elasticsearch configuration to keep services stable and highly available.
- Wrote Shell Script automation for server provisioning, backup routines, website migrations and SSL certificate management.
- Ran multi-cloud (AWS, GCP) and on-premise infrastructure using KVM, CloudStack and Virtualizor.
- Hardened systems with firewalls (iptables, UFW), a WAF (ModSecurity), IDS/IPS, SSH access management and continuous vulnerability monitoring.
- Handled advanced DNS zone management (Cloudflare, cPanel, Registro.br), CDNs and redirects.
- Supported email platforms (Zimbra/Carbonio) and client applications running on cPanel, WordPress, Mautic and N8N.

Access Control and Site Security Officer

Jan 2023 — Apr 2024 | Santa Catarina, Brazil

Night shift

- Responsible for access control: identifying, logging and authorizing the entry and exit of staff, visitors and suppliers.
- Perimeter monitoring and enforcement of internal security procedures, working night shifts with full autonomy over the shift.

EDUCATION

Postgraduate Specialization in Scientific Computing for Industry Jan 2026 — Present | thesis defense expected in 2027

Federal Institute of Santa Catarina (IFSC) — Florianópolis

Systems Analysis and Development

Jan 2022 — Jan 2025 | Santa Catarina, Brazil

Uniassevi — three-year technologist degree

- Software engineering, object-oriented programming and relational databases, using PHP, Java, JavaScript, Python, HTML5 and CSS3.
- Computer networking, distributed systems and information security.

PROJECTS

Shanalotte — Predictive Maintenance for Linux Servers with Machine Learning

2026 — Present

Postgraduate thesis (IFSC)

- An agent that consumes the telemetry Zabbix already collects, without installing anything on the monitored servers, and estimates the probability of a machine freezing 1, 6 and 12 hours ahead.
- Uses Zabbix's own event history as ground truth, training the models on the periods that preceded real failures rather than flagging generic anomalies.
- Python 3.13 pipeline: collection through the JSON-RPC API with rate limiting and checkpoint resumption, storage in Apache Parquet queried with DuckDB, and anomaly detection with scikit-learn.
- Runs in an LXC container on Proxmox VE, reached over a WireGuard tunnel, with a read-only API token, secrets in environment variables and credential scanning by gitleaks on pre-commit. Planned for release as open source.

rarysson.com.br — Personal portfolio and publishing site

2026 — Present

Personal project | rarysson.com.br

- A static site built with Astro and Tailwind CSS, with all content in Markdown under version control — no database and no exposed admin panel, which cuts the attack surface dramatically.
- Images optimized and metadata stripped at build time, continuous deployment from the repository, a strict Content Security Policy, and dependency updates watched by Dependabot.

TECHNICAL SKILLS

Systems and Automation: GNU/Linux (Debian, Ubuntu, CentOS, AlmaLinux), Windows 11 and Windows Server, Shell Script (Bash), Python, Git and SVN

Identity and Directory: Univention Corporate Server (UCS), LDAP, Kerberos, Samba AD, NIS, Google Workspace

Networking and Security: FortiGate (Fortinet) and FortiClient, UniFi and Ubiquiti, iptables and UFW, IDS/IPS, VPN, WireGuard, system hardening, DNS zone management, SPF, DKIM and DMARC, digital certificates and SSL/TLS

Cloud and Virtualization: AWS, Google Cloud, DigitalOcean, Docker, Kubernetes, Proxmox VE, LXC, KVM, CloudStack, Virtualizor

Servers and Applications: Apache, Nginx, WordPress, PHP, Redmine, Zimbra/Carbonio, WHM/cPanel, Jira

Data and Machine Learning: MySQL, PostgreSQL, MariaDB, Redis, Elasticsearch, pandas, NumPy, scikit-learn, Apache Parquet, DuckDB

Monitoring: Zabbix, Prometheus, Grafana, UptimeRobot

ADDITIONAL INFORMATION

- **Further training:** courses completed on Curso em Vídeo, LinuxTips, Alura and Ada Tech, covering Linux (LPI), Shell Script, Python 3, MySQL, Java (OOP), JavaScript, HTML5, CSS3 and networking.
- **Brazilian Sign Language (Libras):** certified by the Federal University of Santa Catarina (UFSC).
- **Languages:** Portuguese (native); English (studying, focused on conversation).