Márcio Ferreira Lima

Backend · DevOps · Infrastructure

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Summary

IT Technician at the University of Pernambuco (Universidade de Pernambuco) and Software Engineering undergraduate (5th semester). I run the network infrastructure of a university campus (Fortinet firewall, Aruba switches, Ruckus access points, structured cabling) and build Java APIs with Spring Boot and PostgreSQL, with automated tests, Docker, CI/CD on GitHub Actions and cloud deployment (Oracle Cloud and Cloudflare). Looking for an internship in Backend, DevOps or Infrastructure.

Experience

Universidade de Pernambuco (UPE) · Surubim Campus — Aug 2026 – Present
IT Technician (University Management Assistant) · public service exam

- Campus IT support: preventive and corrective maintenance of about 35 computers, and support for professors with projectors and classroom equipment.
- Campus network infrastructure administration: rack with a Fortinet firewall, Datacom equipment, a 24-port Aruba switch and Ruckus access points.
- Installation and labeling of UTP cabling (5 network drops so far) and on-demand Wi-Fi access points.
- Member of DTIC-Infra, the IT infrastructure team that reports to the university's central administration.
- Public IT procurement documents: about 6 Preliminary Technical Studies (ETP), plus Terms of Reference (TR) and Price Surveys.

Universidade de Pernambuco · PROPEGI — Jul 2026 – Present
Technological Innovation Fellow (scholarship) · Observatório UPE

- Development of a system that centralizes data from the university's departments (in progress).

Universidade de Pernambuco · Extension — May 2026 – Aug 2026
Volunteer · "Conhecendo a UPE" outreach program

- Visits to public schools in the region to present UPE's programs and guide students on university admission.

Brisanet Telecomunicações — Dec 2025 – Aug 2026
Administrative Apprentice

- First-level technical support and customer connectivity troubleshooting; administrative routines in internal systems.

Márcio Tec — Apr 2025 – Present
Computer Maintenance Technician (self-employed)

- Preventive and corrective hardware and software maintenance, formatting and operating system installation.
- Network, router and Wi-Fi configuration for homes and small businesses.

Gnet Provedor — May 2024 – Feb 2025
Inventory Assistant · Receptionist

- Testing and maintenance of network equipment (ONUs, routers and switches), inventory control and customer service with service order triage.

Projects

Clinics · medical exam price comparison in Surubim (app + API) — 2026
`Java 25 · Spring Boot 4 · PostgreSQL · Flutter · Docker · GitHub Actions · Cloudflare`
clinics.marciodev.com

- REST API with a layered architecture (controller, service and repository), PostgreSQL and Flyway, JWT authentication and more than 250 automated tests (JUnit, Testcontainers and ArchUnit).
- CI/CD on GitHub Actions with automatic deployment via Docker Compose to an Oracle Cloud VPS, exposed through Cloudflare Tunnel without exposing the API on public ports; load testing with k6.
- Flutter app (Android and PWA) with search, price comparison and WhatsApp contact.

Barbershop System · online booking · Web Programming course 2026
`Java 21 · Spring Boot 4 · PostgreSQL · Docker · GitHub Actions · Next.js`
barbearia.marciodev.com

- REST API with JWT authentication, role-based access control (RBAC) and booking conflict validation with optimistic locking.
- Multi-stage Dockerfile and a GitHub Actions workflow that publishes the image to GitHub Container Registry and deploys over SSH to a VPS.

Repair Shop System · service orders · Programming III course 2025
`Java 21 · Spring Boot 3 · PostgreSQL · Vue.js`
assistencia.marciodev.com

- Service order state machine with the State pattern and repair workflow with Template Method (GoF design patterns), for four user profiles.

UrbanSense · app for Meta Ray-Ban smart glasses · team project 2026
`Kotlin · Android · Python · YOLO11 · Docker`

- Android app that captures images from the glasses and sends them to a YOLO11 API on a VPS that detects trash and potholes.
- My part: video frame capture with PixelCopy without freezing the stream, API integration, centering the map on occurrences and APK release distribution.

marciodev.com · personal website and portfolio 2026
`Astro · TypeScript · GitHub Actions · Playwright · Cloudflare`
marciodev.com

- CI on GitHub Actions with unit and browser tests, accessibility checks (axe) and Lighthouse scores of 95+; automatic deployment to Cloudflare with a custom domain and security headers.

Skills

Backend: Java, Spring Boot, Python, PostgreSQL, REST APIs, JWT
DevOps: Docker, Docker Compose, GitHub Actions, CI/CD, Linux, Cloudflare, Oracle Cloud
Networking and infrastructure: Fortinet, Aruba, Ruckus, Datacom, UTP structured cabling, TCP/IP, Wi-Fi
Other: Git, automated testing (JUnit, Testcontainers), design patterns (GoF)

Education

Universidade de Pernambuco (UPE) `Aug 2024 – Dec 2028 (expected)`
B.Sc. in Software Engineering · 5th semester

ETE Antônio Arruda de Farias `Feb 2021 – Dec 2023`
Technical Degree in Systems Development (integrated with high school)

Certifications

- Introduction to Cybersecurity — Cisco Networking Academy (Feb 2025)
- Introduction to Linux — Santander and DIO (Mar 2025)
- Technologies 4.0 Program: Artificial Intelligence — UPE and FACEPE, 32 h (May 2025)
- TECH Immersion: Telecom, FTTH and FWA/5G — Brisanet and Unibrisa (Jan 2026)
- Cybersecurity Campaign, Cycle 03 — Brisanet (2026)

Publication

SOUZA, J. H. R.; BARROS, L. N.; LIMA, M. F.; SOUSA, J. P. Os impactos da falta do letramento digital na educação pública estadual na cidade de Surubim PE durante a pandemia da COVID-19 [The impacts of the lack of digital literacy on state public education in Surubim, PE, during the COVID-19 pandemic]. *Studies in Multidisciplinary Review*, v. 6, n. 2, p. 01–17, 2025. DOI: 10.55034/smrv6n2-005

Languages

Portuguese (native) · English (intermediate, technical reading)