# Walter Nascimento Barroso

**Tech Lead — Python · PHP/Symfony · Node.js · AWS · Kubernetes**

Braga, Portugal (remote, CET) · +351 911552086 · walternascimentobarroso@gmail.com ·
linkedin.com/in/walternascimentobarroso · github.com/walternascimentobarroso

## SUMMARY

Hands-on tech lead with 10+ years in software and team leadership in four companies. At a B2B pharmaceutical startup I stepped up to lead the team within 6 months, grew it from 4 to ~10 engineers, mentored 4–5 developers and introduced CI/CD and Terraform that took releases from 2–4 hours to under 20 minutes. At a large e-commerce I led the zero-downtime migration of a legacy PHP monolith into Node.js microservices with RabbitMQ. I still write code daily in Python (FastAPI), PHP (Symfony, Laravel) and Node.js/TypeScript, and I care about Clean Architecture, delivery flow and growing people.

## EXPERIENCE

### Senior Software Engineer (Tech Lead) — Gruppy

*Sep 2023 – Present · B2B startup, platform for pharmaceutical retail*

- Stepped up from Senior Engineer to lead the team within 6 months, helping grow it from 4 to ~10 engineers and mentoring 4–5 developers on API design, Python best practices and cloud architecture.
- Proposed and implemented CI/CD pipelines (GitLab CI, GitHub Actions, Docker), replacing 2–4 hour manual deployments with automated releases in under 20 minutes (~90% faster).
- Led production incident response during peak-load outages: mitigated by scaling Kubernetes nodes and pods, fixed the root cause through query optimization and Redis caching, and prevented recurrence with HPA autoscaling and Prometheus/Grafana alerts.
- Reduced the monthly network-wide sales report from ~3 hours to ~5 minutes (~97% faster) by fixing inefficient JOINs, indexing the sales table and adding a Redis cache layer.
- Drove the adoption of Terraform for AWS infrastructure and cut compute costs by ~15% by right-sizing services to current-generation instances.
- Built backend services with Python, FastAPI and SQLAlchemy following Clean Architecture, with pytest suites increasing deployment confidence.

### Full Stack Software Engineer — ALTA

*Aug 2022 – Sep 2023 · Software house, multiple client products in parallel*

- Containerized 10+ client projects with Docker and docker-compose, cutting developer onboarding from 1–2 days to under 20 minutes and standardizing environments across teams.
- Delivered features across multiple client projects using PHP/Symfony, Python and Node.js on the backend and React and Vue.js on the frontend.
- Deployed and operated containerized workloads on Kubernetes and contributed to GitLab CI/CD pipelines.

### Senior Software Engineer (Team Lead) — Mobly

*Nov 2020 – Aug 2022 · Large Brazilian home & living e-commerce*

- Led the zero-downtime migration of a legacy PHP monolith into 4–5 Node.js microservices with RabbitMQ (strangler fig), improving performance by ~30% and cutting deployment time by ~90%.
- Led and mentored 3 junior developers through code reviews, pairing and technical decisions during the migration.
- Replaced shared-database access and ad-hoc monolith endpoints with REST APIs and asynchronous events, reducing integration time for new systems by over 50% and removing tight coupling between teams.

### Full Stack Developer (Team Lead) — Sefaz-RR (Roraima State Treasury)

*Jul 2019 – Nov 2020 · Regulated government environment*

- Led a team of 5 developers integrating the state's core public accounts system with the Rio Grande do Sul Treasury SOAP API.
- Improved onboarding in a high-turnover team, getting new developers productive faster and keeping delivery on track.

- Unblocked the team in a highly regulated environment by creating a test environment with synthetic data, avoiding multi-department approvals for sensitive fiscal data.

### Full Stack Developer — W3bsoftwares

*Aug 2017 – Nov 2020 · Software house with its own products*

- Took part end-to-end in migrating the school management platform's backend from the deprecated Silex framework to Symfony.
- Maintained and evolved the company's LMS (PHP/Symfony, React, PostgreSQL, MySQL on AWS), implementing role-based access control.

### Freelance Web Developer

*Aug 2015 – Nov 2017 · Independent projects*

- Maintained APIs and improved performance and usability of client websites (PHP, JavaScript, MySQL, PostgreSQL).

### Software Engineer (Team Lead) — M2Smart Solutions

*May 2013 – Aug 2015 · Software for pharmacy retail*

- Grew from junior developer to team lead, coordinating a team of 5–8 people.
- Migrated a desktop point-of-sale system used in pharmacies to a web application (PHP/Zend Framework, ExtJS, PostgreSQL).

## SKILLS

- **Leadership:** team growth, mentoring, code reviews, technical decisions, onboarding, incident response
- **Languages:** Python, PHP, TypeScript, JavaScript, Golang, SQL
- **Frameworks:** FastAPI, Django, Flask, SQLAlchemy, Symfony, Laravel, Node.js, React, Vue.js
- **Architecture:** Clean Architecture, microservices, event-driven, legacy modernization (strangler fig), REST, SOAP
- **Databases & messaging:** PostgreSQL, MySQL, MongoDB, Redis — SQL tuning and indexing · RabbitMQ, Kafka
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, GitLab CI, GitHub Actions, Prometheus, Grafana

## CERTIFICATIONS

AWS Certified Solutions Architect – Associate (2026) · PCAP (2024) · PCEP (2024) · AWS Certified Cloud Practitioner (2024) · GitHub Foundations (2024) · ITIL Foundation (2025)

## EDUCATION

- Postgraduate – Software Engineering · Faculdade Unyleya · 2020
- Postgraduate – Database Administration · Universidade Estácio de Sá · 2016
- Postgraduate – Computer Networks and Security · UNICIV · 2020
- Bachelor of Technology – Analysis and Systems Development · Centro Universitário Cathedral · 2014

## LANGUAGES

Portuguese (native) · English (C1)