

Lucas Gabriel Ferreira

Backend Software Engineer

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Summary

I build PHP and Python APIs and integrations for enterprise systems, industrial monitoring and healthcare operations. At IMD/LABCOMU, I develop systems supporting onboarding at Apple Developer Academies as part of a multinational project, focusing on data synchronization, observability and software quality.

Experience

IMD/LABCOMU · UFRN | Backend Developer

Dec 2023 - Present | Remote, Brazil

- Develop PHP/Slim REST APIs for systems supporting onboarding at Apple Developer Academies, as part of a multinational project with Apple as a client.
- Implement data synchronization processes and contribute to the current backend's hub-spoke architecture.
- Build audit logging and integrate Elasticsearch search and Prometheus metrics to monitor API operations.
- Maintain and improve quality pipelines across five backend projects with automated tests, PHPStan level 8 and SonarQube.
- Contribute to CI/CD and iOS release preparation, including Xcode builds, signing, provisioning and TestFlight distribution.

Geowellex | Full Stack Developer

May 2023 - Present | Natal, Brazil

- Build FastAPI services connecting industrial PLCs through MQTT and WebSocket for real-time drilling monitoring.
- Maintain lithological monitoring systems using PHP, Symfony and Laravel, with AngularJS interfaces.
- Develop customizable PDF reports with Electron, Highcharts and TypeScript; configure Mikrotik for the portable Drilling Box monitoring system.

DB2 | Full Stack Developer

Apr 2024 - Apr 2026 | Brazil

- Developed Django and Django REST Framework APIs and Sienge integrations for construction industry software.
- Maintained production applications using Docker and AWS ECS/ECR, including backend services and React interfaces.

Earlier experience

SESAP/CTEC | Full Stack Developer

Jan 2023 - Jul 2024 | Natal, Brazil

- Built hospital logistics, inventory and parenteral nutrition systems with React, FastAPI, Flask, SQLAlchemy and PostgreSQL.
- Maintained containerized environments with Portainer and developed Power BI dashboards, Selenium automations and Windows services.

Linuslog | Full Stack Developer

Aug 2021 - Dec 2022 | Natal, Brazil

- Developed ERP modules with FastAPI, SQLAlchemy, MySQL, React and TypeScript; maintained Windows and Debian Linux servers.

BTN Solutions | Systems Support Analyst

Aug 2021 - Dec 2022 | Natal, Brazil

- Resolved Firebird, PostgreSQL and MySQL issues through backups, recovery, indexing and optimization; supported ERPs and server virtualization.

STI/UFRN | Systems Support Analyst

Sep 2021 - Dec 2021 | Natal, Brazil

- Connected SIGAA users with the development team through issue triage and technical reports on bugs and vulnerabilities.

Education

Computer Engineering

Federal University of Rio Grande do Norte (UFRN) | Dec 2024 - In progress

BSc in Science and Technology, Computing emphasis

Federal University of Rio Grande do Norte (UFRN) | Completed Dec 2024

Skills

Backend and architecture: PHP, Slim, Symfony, Laravel, Python, FastAPI, Django, Flask, REST APIs, SQLAlchemy, Hub-spoke architecture, Data synchronization

Data and observability: PostgreSQL, MariaDB, MySQL, Redis, Elasticsearch, Prometheus, Audit logging, MQTT, WebSocket

Infrastructure and quality: Docker, AWS ECS/ECR, Linux, CI/CD, Bitbucket Pipelines, PHPUnit, PHPStan, SonarQube

Interfaces and delivery: React, TypeScript, AngularJS, Electron, Highcharts, Xcode, TestFlight

Languages

Portuguese: native | English: B2 (self-assessed)