

João Gabriel Lima Marinho

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Technical Skills

Languages: TypeScript, JavaScript, Python, Java, Go, SQL

Frontend: React, Next.js, Electron, Tailwind CSS, Redux | **Backend & Data:** Node.js, Spring Boot, FastAPI, PostgreSQL, Redis, REST, WebSockets

Cloud & DevOps: AWS, Google Cloud (GCP), Docker, Kubernetes, Terraform, CI/CD | **Quality & Observability:** E2E Testing, Playwright, Jest, Prometheus, Grafana, Git | **Language:** Advanced English

Experience

Mid-Level Full Stack Developer

Dec. 2025 – Present

Lycium

- Led more than **8 end-to-end deliveries**, from refinement to deployment, for domestic and international clients, communicating daily in English, including the Shreder subscription management system and e-commerce projects.
- Automate infrastructure and CI/CD on Google Cloud (GCP) with Terraform and Docker; develop with React, Node.js, and Redis; implement E2E tests with Playwright and unit tests with Jest; lead technical training and mentor interns.

Mid-Level Front-End Developer

Aug. 2023 – Mar. 2026

YSMART

Niterói, RJ

- Developed **N-Watch**, a desktop and web application for monitoring IEC 61850 networks in electrical substations, using React, Electron, and TypeScript.
- Implemented real-time anomaly alerts, failure handling for asynchronous operations, and interactive dashboards for multi-level analysis.

Technology Development Research Fellow – MoveUFF

Aug. 2023 – Present

Universidade Federal Fluminense

Niterói, RJ

- Developed and validated a distributed web-based SCADA architecture for electric bicycle telemetry, integrating IEC 61850/MMS, Next.js, WebSockets, Redis, PostgreSQL, and Kubernetes.
- Implemented a virtualized testbed with simulators for up to **1,000 bicycles** and progressive load and resilience tests instrumented with Prometheus and Grafana.
- Published and presented a first-author paper at the **26th Brazilian Congress of Automation (CBA)**; the project won **3rd place in the 2024 UFF Excellence Award**.

Full Stack Developer

Dec. 2023 – Jun. 2026

Freelancer

Niterói, RJ

- Designed and delivered the DAliaças B2B platform, combining e-commerce with an admin dashboard for orders, discounts, and analytics using Next.js, Spring Boot, and PostgreSQL.
- Automated the purchasing workflow and built a CI/CD pipeline with Docker and AWS; after launch, the client recorded an **85% increase in sales**.

Software Developer (R&D UFF/Petrobras)

Jan. 2024 – Dec. 2025

Universidade Federal Fluminense

Niterói, RJ

- Developed an application to visualize and analyze corrosion indicators on oil platforms, integrating React, OpenCV, and NumPy for image and operational data processing.

Projects & Awards

CVRP Route Optimization – [GitHub](#) | *Python, Genetic Algorithm, CVRPLIB*

2026

- Reproduced and extended a genetic algorithm with Clarke-Wright/Savings and 2-opt, reducing the average gap from **15.45% to 8.25%** and outperforming the baseline paper in 9 of 10 instances.

Hackathons & Awards

2024

- Contributed to teams that won **three first-place awards** at the Lumx Hackathon and Scroll tracks at ETH Rio and ETHSamba, totaling **US\$7.5K** in prizes.

Education

Universidade Federal Fluminense (UFF)

Niterói, RJ

Bachelor's Degree in Computer Science

Expected Dec. 2026