

JOÃO GABRIEL LIMA MARINHO

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PROFILE

I am an undergraduate student in Computer Science at Universidade Federal Fluminense, with solid experience in web development and as a technological research fellow. Throughout my academic journey, I have contributed to research projects and applied practical knowledge to innovative solutions. My main skills are related to web application development, computational process optimization, and employing best practices in software engineering.

EDUCATION

Universidade Federal Fluminense (UFF)

Bachelor in Computer Science

Niterói, RJ

Aug. 2022 – Jun. 2026

EXPERIENCE

Software Engineer - R&D UFF/Petrobrás

Jan 2024 – Present

Universidade Federal Fluminense

Niterói, RJ

- Acted as a consultant for undergraduate fellows in the development of a software for visualizing corrosion indices in oil platforms using React and integrating OpenCV and NumPy to process and analyze images and platform data.
- Developed leadership and teamwork skills, coordinating efforts among team members and collaborating with multi-disciplinary groups.

Front-end Developer

Ago. 2023 – Present

YSMART

Niterói, RJ

N-Watch

- **Technologies:** React, Electron, Typescript, TailwindCSS, Chartjs, Jest, Shadcn, Redux, tRPC
- Development of a desktop software for intelligent monitoring of communication networks in electrical substations. N-Watch collects, analyzes, and presents data efficiently, aiding diagnostics and decision support, ensuring operational efficiency and safety. Desktop and web application development, with a focus on usability and integration of advanced functionalities, such as real-time anomaly notifications, asynchronous development fallback systems, and interactive dashboards for multi-level data analysis.

Landing Page - Project Link

- **Technologies:** Next.js, Javascript ES6, TailwindCSS, Framer-Motion
- Developed a landing page for YSMART, focused on attracting clients and increasing lead acquisition. The modern, SEO-optimized design highlights the company's services and includes strategic CTAs to generate engagement and conversions.

Research Student

Aug. 2023 – Present

Universidade Federal Fluminense

Niterói, RJ

MoveUFF

- **Technologies:** Recharts, Next.js, Electron, Tailwind, Web3.js, Framer Motion, Middlewares
- Development of a real-time tracking system for electric bicycles, using an interactive map to allow tracking of bikes used by students and professors across UFF campuses, focused on promoting sustainable urban mobility. Also implemented integration with smart contracts on the blockchain using Web3.js to ensure security and transparency in transactions and operations related to the system.

Telessaúde HUAP - Project Link

- **Technologies:** Wordpress, Elements
- Telessaúde is a collaborative initiative between UFF and Antônio Pedro University Hospital, integrating technology and healthcare to improve accessibility, education, and quality of medical services.
- As part of the Infrastructure and IT team, I coordinated the website redesign using Figma and WordPress. I worked directly in the university's development environment, facilitating integration and deployment.

Full-stack Developer

Freelancer

Dec. 2023 – Sep. 2024

Niterói, RJ

DAliaças - [Project Link](#)

- **Technologies:** Next.js, Nest.js, TanstackQuery, Kubernetes, ArgoCD, Prometheus, Grafana, Traefik, Docker, PostgreSQL, Electron, React Native
- DAliaças is an e-commerce platform developed for a jewelry factory, with a custom online store focused on wholesale sales. A complete admin panel was implemented with functionalities for order management, discounts, and statistical analysis.
- Development was done using CI/CD strategies with Docker, Kubernetes, ArgoCD and Github Actions ensuring continuous integration and efficient deployment.
- After the platform's implementation, the factory's sales increased by 85%, and the purchasing process became automated, optimizing customer experience and internal flows.

PROJECTS

Process Scheduler - [Link](#) | Python, RichLib

May 2024 – Jun 2024

- A process scheduling simulator designed with a preemptive feedback policy, using a quantum of 3 clocks and 4 ready queues. The simulator supports process creation, state transitions, resource allocation, and real-time logging for monitoring.

Notemock - [Link](#) | Java, Springboot, JWT, Next.js, MongoDB, TailwindCSS, Git

Jan. 2020 – Aug. 2022

- Development of a to-do list website in Next.js focused on flexibility and customization, designed for students, developers, and anyone looking for an organized and adaptable tool.
- Offers features such as OAuth authentication, priority organization, customizable groups, and hierarchical task structuring.

CHALLENGES AND AWARDS

2024 Third place in the Technological Development and Innovation Initiation Award **UFF Excellence Award**

2024 First place at the **Lumx Hackathon ETH Rio** (prize: \$5000)

2024 First place at the **Scroll's Track ETH Rio** (prize: \$1000)

2024 First place at the **Scroll's General Track ETHSamba** (prize: \$1500)

SKILLS

Languages: Advanced English

Programming: Java, Python, C, Dart, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Next.js, Nest.js, Node.js, Flask, FastAPI, Springboot, Flutter, TailwindCSS, Framer Motion, Three.js

Tools: Figma, Git, Docker, Kubernetes, AWS, Azure, Oracle Cloud, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib, OpenCV