# Gabriel Mendes Lopes

Fullstack Developer

## CONTACT

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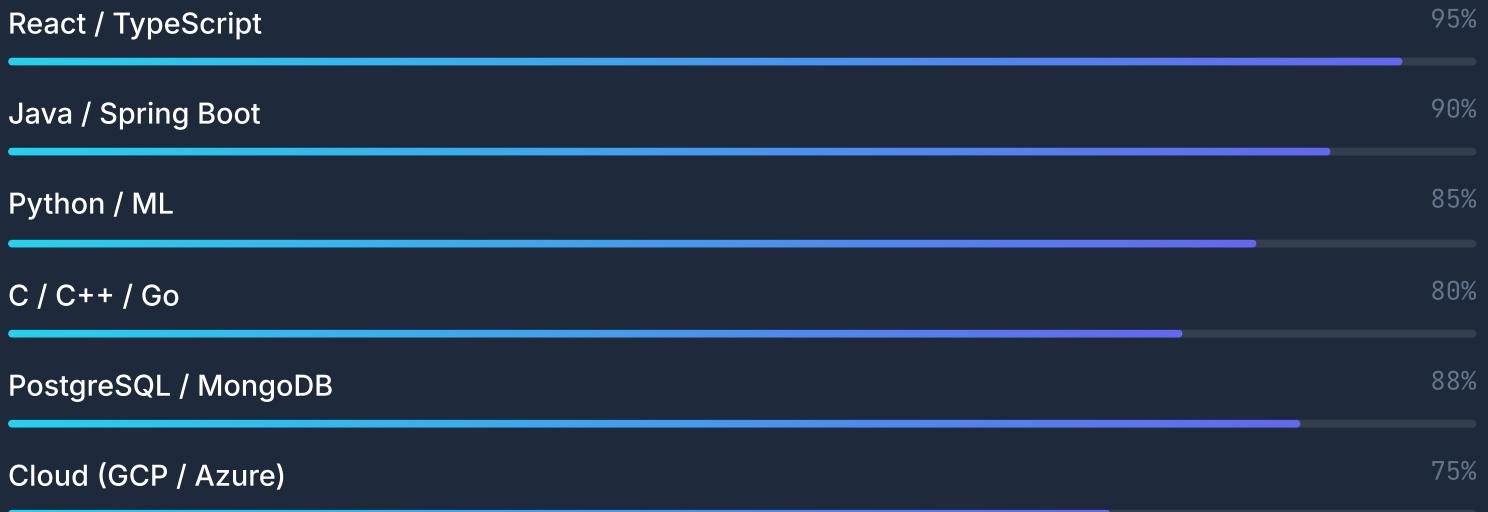
🐙 github.com/ShybaPsY

📍 Anhumas, SP - Brazil

## SKILLS

React / TypeScript — 95%

Java / Spring Boot — 90%

Python / ML — 85%

C / C++ / Go — 80%

PostgreSQL / MongoDB — 88%

Cloud (GCP / Azure) — 75%

Portuguese — Native

English — Advanced (C1)

Spanish — Basic

## CERTIFICATIONS

| 2024 | C/C++ Complete |

| 2024 | Power BI - SENAI |

| 2024 | IoT - SENAI |

| 2023 | Google Cloud AI |

| 2023 | Microsoft AZ-900 |

## About Me

**Fullstack Developer** passionate about creating complete and innovative digital solutions. Currently in the **5th semester of Information Systems** at FIPP and **PIBITI/CNPq Scholar** at FCT-UNESP, where I develop automation systems for piezoelectricity research. Solid experience in **React, TypeScript, Java Spring Boot, Python** and integration with **payment APIs, AI (Gemini)** and databases. Proactive, dedicated and constantly seeking challenges that generate real impact.

Communication  Problem Solving  Proactivity  Teamwork  Negotiation

## Experience

### Technological Initiation Scholar (PIBITI)
**FCT-UNESP / CNPq**

Sep 2025 - Sep 2026

- Development of closed-loop control software with **Arduino** for piezoelectric measurement equipment
- Integration of pneumatic actuators and **HX711** load cell sensors with serial communication
- Desktop application in **Python/PyQt5** with real-time graphs and state machine
- Preparation of documentation for **patent and software registration**

## Featured Projects

### ContabilPro - Digital Admission SaaS
2025

SaaS platform for accounting firms. 8-step wizard, CPF validation, masks for Brazilian documents, LGPD compliance, auto-fill via ZIP code and Gemini AI.

`React 19`  `TypeScript`  `Supabase`  `TailwindCSS`  `Framer Motion`

### QuoteFys - AI-Powered Quotation SaaS
2025

Complete platform for automatic quotation generation. 12 PostgreSQL tables with RLS, MercadoPago subscriptions (HMAC webhooks), WhatsApp automation via Twilio and PDF generation.

`React`  `TypeScript`  `Supabase`  `TailwindCSS`  `Vercel`

### BomServico - Classifieds Platform
2025

Fullstack classifieds system for service providers. JWT authentication, image upload, messaging system and admin panel.

`Java`  `Spring Boot`  `PostgreSQL`  `JWT`  `Bootstrap`

### Stock Market Prediction with ML
2025

ML pipeline for financial index prediction. Random Forest, AdaBoost and MLP Neural Network with technical indicators (SMA, RSI, MACD). MLP model: 52.78% accuracy.

`Python`  `Scikit-learn`  `Pandas`  `NumPy`

## DOARC - Donation Management System

2025

Fullstack system for NGO. Dashboard, complete CRUD, inventory control, delivery scheduling and reports with PDF/Excel export. LGPD compliance.

`Java` `Spring Boot` `PostgreSQL` `REST API`

## Interactive OS-Style Portfolio

2025

Portfolio in operating system format. Custom window manager, terminal with 25+ commands, 11 Canvas games, scientific calculator. +10,000 lines of pure JS.

`JavaScript` `Canvas API` `Web Audio` `ES Modules`

## Education

### Bachelor's Degree in Information Systems

FIPP - Faculty of Informatics of Presidente Prudente

2023 - 2026 (5th semester)

### Technological Initiation - Piezoelectricity

LabElTec - FCT UNESP (PIBITI/CNPq Scholarship)

Research in nanotechnology and piezoelectric materials

# Tech Stack

| React | TypeScript | Java | Spring | Python | C / C++ | Go |
|---|---|---|---|---|---|---|
| PostgreSQL | MongoDB | Supabase | Gemini AI | GCP | Git | CI/CD |
| Next.js | Vercel | | | | | |