

RAFAEL VECCHI SILVA

Fullstack Developer

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SUMMARY

Fullstack Developer maintaining full ownership of an EdTech platform (~5,000 enrolled students, 500+ active classes) comprising an admin portal and a classroom Progressive Web App (PWA) built with PHP/CodeIgniter, JavaScript/TypeScript, and Angular, hosted on AWS. Sole developer responsible for end-to-end delivery from requirements to deployment across an undocumented legacy backend with ~190 endpoints. Background in Electrical Engineering (UNESP), 3+ years at Siemens driving multi-million dollar commercial decisions through data analysis, and participant in a 3-month Chingu Voyage collaborating asynchronously in an international team (Brazil, Spain, Angola, USA) using Git flow, PR code reviews, and Scrum.

PROFESSIONAL EXPERIENCE

Little Maker (*EdTech - project-based learning platform / Maker Education*)

Fullstack Developer | Campinas, Brazil | Aug 2025 – Present

- Sole developer responsible for end-to-end delivery of a two-product Maker Education platform (web admin portal and classroom PWA) serving ~5,000 enrolled students across 500+ active classes and ~400 staff users (instructors and coordinators), from requirements gathering to deployment, working directly with company leadership on product direction.
- Develop and maintain backend services (~190 endpoints/actions) in PHP (CodeIgniter 3) and MySQL within an undocumented legacy codebase, extending functionality while preserving system stability.
- Maintain and enhance the classroom PWA using TypeScript and Angular, supporting more than 7,000 projects in 2026 alone.
- Manage application deployment and operations on AWS (Elastic Beanstalk and EC2), including production issues resolution.
- Develop and maintain the administrative interface (HTML, CSS, JavaScript, Bootstrap) used daily by instructors and coordinators to manage classes, projects, and student data.
- Troubleshoot issues across the entire stack (PHP backend, Angular/Ionic frontend, AWS infrastructure), resolving recurring production problems to keep the platform stable.

Career Transition | Family Business Support & Self-Taught Software Development

Campinas, Brazil | Nov 2022 – Aug 2025

- Supported the structuring and daily operations of a family business ([Cookieaholic - @cookie.aholic](#)) during its early growth stage.
- Studied fullstack web development through [The Odin Project](#) curriculum (JavaScript, React, Node.js, PostgreSQL), building project-based skills that led to a Fullstack Developer offer at Little Maker.

Siemens Infrastructure & Industry (*global industrial technology company*)

Data & Bid Management Analyst | Jundiaí, Brazil | Jun 2019 – Nov 2022

- Led data standardization and analysis for the Digital Lead Management (DLM) team, centralizing electronic bid portal monitoring across multiple business units.
- Developed reports and analyses that:
 - directly supported commercial strategy: identified high volumes of low-value, out-of-scope bid requests, enabling business units to negotiate frame agreements with clients such as Petrobras and Vale while reducing unwanted requests;
 - enabled implementation of team performance monitoring, providing leadership with data that justified expanding the team from 5 to 6.75 full-time positions (one analyst and one intern added).
- Managed end-to-end electronic bidding processes, providing operational support to commercial teams and customers for opportunities ranging from approximately BRL 1 million to over BRL 100 million.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP

Frontend: HTML, CSS, Bootstrap, Angular, React

Backend: Node.js, Express, CodeIgniter 3

Databases: MySQL, PostgreSQL

Cloud: AWS (Elastic Beanstalk, EC2), Vercel

BI & Data Analysis: Power BI, Tableau

EDUCATION

UNESP - Universidade Estadual Paulista Júlio de Mesquita Filho

B.S. in Electrical Engineering | Bauru, Brazil | 2021

Graduation Project: Low-Cost Remote Current Monitoring System - IoT (Internet of Things) project integrating a NodeMCU microcontroller (programmed in C++), a current sensor, and the ThingSpeak platform for real-time online visualization of an electric motor's current.

PROJECTS

Penta AI - AI Prompt Optimization Assistant

React, Node.js, Express, MongoDB, Tailwind, Vite | github.com/VecchiR/Penta-AI (demo unavailable - API key expired)

- Built during a 3-month Chingu Voyage as one of three developers in a five-person cross-functional volunteer team (Product Owner, Project Manager, and developers across Brazil, Spain, Angola, and the USA), collaborating asynchronously in English via Discord, GitHub, and Trello.
- Responsible for frontend modernization and Google Gemini API integration to enable AI-assisted prompt generation.
- Worked with professional end-to-end development workflows including Git Flow branching, pull request code reviews, Trello ticket ownership, and Scrum ceremonies.

LANGUAGES

Portuguese (Native) · English (Proficient) · Italian (Basic)