

Rafael Figueira Gonçalves | MSc

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Italo-brazilian, 27 years old, married, full-stack engineer, automation and cat enthusiast.

Academic Formation

UEL – Universidade Estadual de Londrina <i>Computer Science Master's degree</i>	Londrina PR 2020-2023
UENP – Universidade Estadual do Norte do Paraná <i>Computer Science Bachelor's degree</i>	Bandeirantes PR 2015-2019
Cardiff and Vale College <i>A-Levels in Mathematics, Statistics, and Computing</i>	Cardiff UK 2013-2015

Professional Experience

Outlier <i>AI/LLM Code Reviewer</i>	Remote 2024-Current
MartEye <i>Node, React-Native, Next, Electron, and GCP</i>	Galway IE (Remote) 2022-2023 (13 Months)
MM Digital <i>Node, React, Electron, and Browser Extension</i>	Curitiba PR (Remote) 2021-2022 (18 Months)
TARS Tecnologia <i>Vue, Knockout, and .NET</i>	Londrina PR (Hybrid) 2020-2021 (13 Months)
Multiple Clients <i>Unity3D, Android Native, and React</i>	Brazil (Remote) 2018-2020 (24 Months)
Fundação Araucária <i>Scientific Scholarship Projects</i>	Bandeirantes PR 2017-2019 (36 Months)
Academia de Inglês Washington <i>English Teacher</i>	Bandeirantes PR 2016-2017 (12 Months)
SetupJr <i>Vanilla Web and WordPress</i>	Bandeirantes PR 2015-2016 (12 Months)
The Valleys Regional Equality Council <i>Web Design - IT Intern</i>	Abercynon UK 2012 (3 Months)

Languages

Portuguese: Native (born and educated in Brazil).
English: Advanced (lived and studied for 4 years in the United Kingdom).
Italian: Advanced (lived and studied for 2 years in Italy).
French: Intermediate (lived and studied for 1 year in Switzerland).

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, Golang, C++, C#, Java, SQL and AutoHotKey.

Technology List: Node, React + Native, Vue + PWA, Knockout, Jest, webpack, vite, Electron, Google Cloud, Firebase, MongoDB, PostgreSQL, Git, LaTeX, Regex, Unity3D, Chromecast, Chromium Browser Extensions, Containers, Airtable, and Arduino Micro-controllers.

NPM Packages: axios, express, moment, toggl-api, gojs, prismjs, @mui/material, @capacitor/android, @capacitor/core, vuetify, vuex@next, vue-router, vue-cli-plugin-electron-builder, vue-clipboards, ytdl-core, ytsr, googleapis, dateformat, @babel/polyfill, @projectstorm/react-diagrams, electron, eslint, speechyl, fuse.js, youtube-dl-exec, google-translate-api, i18n, react-router, react-redux, react-tooltip, console-feed.

Currently Learning: HTMX, R, Kubernetes, and P5.js.

Notable Projects and Interests

Academic Research in Software Engineering: mentored by PhD André Luís Andrade Menolli. The master's thesis and publications were focused on researching, proposing, and testing a Model-Driven Development approach, targeting Cyber-Physical devices. This research has produced a framework and a prototype tool which generates Arduino C++ source code from visual diagram editing.

Dozens of Personal Projects: Multiple archived projects, from VoIP tool, tourism apps, soundboards, to concept games, totaling 50k+ downloads on Google Play without any advertisements.

Participation in Developer Jams and Hackathons: Example: this project was developed in 8 hours for a LudumDare event: github.com/rzfzr/LD38.

Involvement in Open-Source Community: Interested in open projects, contributed to GitHub repositories, such as [timgrossmann/InstaPy](https://github.com/timgrossmann/InstaPy) and [7eggs/node-toggl-api](https://github.com/7eggs/node-toggl-api).

Innovation and Ownership Visions: During and after my graduation, I participated in entrepreneurship events, developing my own products with colleagues, one of these projects has received state funding for startup stimulus, and won a significant money/mentorship prize at an innovation competition (Desafio Flex Inovação).

Multidisciplinary approach and interests: I have been immersed in multiple areas, not all intrinsically software-based. Such as 3D modeling, video editing, game making, beekeeping, pisciculture, machining, electrics and electronics.

Interest in Education: I have organized numerous workshops within university events and created educational tools. Additionally, I served as the student monitor for the programming class for a duration of two years.

Contributed to NASA's Space Place Prime: Assisted in the development and testing of the Android application.