

# Rafael Figueira Gonçalves | MSc

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Italo-brazilian, 26 years old, married, full-stack engineer, automation and cat enthusiast.

## Academic Formation

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

## Professional Experience

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

## Languages

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**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

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**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

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**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](https://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.