

# FELIPE MELO

**Location:** Belo Horizonte, Brazil | **Nationality:** Brazilian

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## AREAS OF INTEREST / AREAS OF EXPERTISE

Full Stack development | Web | Software Engineer | C# | Typescript | React | Vue.js | SQL

## PERSONAL PROFILE

Software Developer with a Bachelor's Degree in Control and Automation Engineering, working for 4+ years as a Web and Full Stack Software Developer, participating in large projects and working closely with the team to ensure high performance and secure software development. Strong troubleshooting skills, ability to learn new things independently and adept at acquiring and continuously applying new technical skills.

## EDUCATION

- **Bachelor's Degree in Control and Automation Engineering (NFQ Level 8)** | Universidade Federal de Minas Gerais | Belo Horizonte, Brazil | Jan, 2013 – Dez, 2019.
  - *First Class Honours (1) from 2019 to 2020.*
  - *For the final project, developed a real-time eye tracking data collector to be used in a driving simulator. The [application](#) was developed in C#/Windows Forms and captures data from a device remotely through TCP connection.*
- **Bachelor's Degree in Mechatronic Engineering (2nd year)** | The University of Manchester | Manchester, United Kingdom | Sep, 2015 – Aug, 2016.
  - *First Class Honours (1) from 2015 to 2016.*
  - *During the graduation period, participated in a 3-month internship project as an **Embedded Software Developer**, developing the following activities: 1. Simulated the accuracy of the algorithm used for face recognition in MATLAB. 2. Implemented a facial recognition system on a low cost embeddable device using OpenCV/C++. 3. Delivered a functional image recognition device based on Raspberry Pi.*

## CAREER BACKGROUND

**Monument ([monument.io](https://monument.io))** | Storage Management | US (Remote) | Jul 2023 – Present.

### ➤ FULL STACK SOFTWARE ENGINEER

- Collaborating with other engineers on the development of a large web application (typescript/react/nest.js) in the early stages of the company.
- Implementing the first design system components in Storybook (React) and first user stories from design in Figma.

**Livance ([livance.com.br](https://livance.com.br))** | Health Tech Company | São Paulo, Brazil | Aug 2021 – Jun 2023.

### ➤ SOFTWARE ENGINEER

- Implemented new features and maintained applications written in C# .NET, React and Typescript (Next.js).
- Checked my peers' code changes through pull requests to assure we are following our development standards and test the effect of change on the system.

- Described tasks in github projects with both business and technical detailing so developers have a clear specification on what to implement.
- Worked closely with the Product Manager on specifying technical requirements for the tasks assigned to the team.
- Supported the analytics team has all technical with any needs regarding data collection and tool usage.
- Reported any problem regarding performance and morale of the team so we can discuss improvements in these aspects.
- Suggested improvements so the team can create software more efficiently and faster.
- Built reports in metabase (SQL) based on events triggered by our systems in order to measure performance and user behavior.

#### Achievements

- Increased sales and improved customer onboarding experience, improving workflow for salespeople.
- Reduction of code smells and improvement in code organization and readability, preventing system bugs.
  - Colleague recognized code organization and readability improved a lot since I started leading the team.
- More accurate implementations of proposed features/fixes.
- Problems with data collection tools fixed. Data analytics team started to have more knowledge regarding the data pipeline.
- Brought qualitative analysis of the team so the manager had more information that was used to tackle the product development process bottleneck.
- Brought tools and code approaches that started to be used by the team and increased performance.
- Helped identify a performance bottleneck in the room allocation algorithm, which is the core part of the system. Improved performance by caching data, parallelizing calculations and also by suggesting an upgrade in the VM hardware so we could leverage parallelization gains with more processing cores/threads

#### ePharma ([www.epharma.com.br](http://www.epharma.com.br)) | Healthcare Company | São Paulo, Brazil | May 2021 - Aug 2021

##### ➤ FULL STACK SOFTWARE DEVELOPER

- Implemented business rules to the core system written in C#/React, besides making integrations with third-party software.
- Checked my peers' code changes to assure we are following our development standards and test the effect of change on the system.

#### Achievements

- Delivered in less than two weeks a working SOAP API software integration with a partner.
  - Team manager decided to allocate me in a more critical area, related to the core system.
- Started with the team a big software refactor that allowed the use of Code Effects as a business rule engine.

#### Take Blip ([www.take.net](http://www.take.net)) | Digital Messaging | Belo Horizonte, Brazil | Nov 2019 - Apr 2021

##### ➤ FULL STACK SOFTWARE DEVELOPER

- Migrated more than 50.000 records from a legacy support system to Zendesk (support software).
- Built a configurable custom API (C#/React.js) which provided real-time integration between Zendesk and Azure DevOps.
- Implemented a configuration panel for the Zendesk-Azure DevOps integration in React.js.
- Setup CI/CD pipeline for automated build and deploy.

### Achievements

- Migration of record history which allowed a full replacement to a better support system.
- Real time communication between support and development teams through tickets synced with Azure DevOps Work Items.
- Tech Lead was positively surprised by the implementation of this more complex feature.
- Automated application deploy with secret storage and replacement on appsettings.

### **Easiedata ([easiedata.com](https://easiedata.com)) | Data Management | Belo Horizonte, Brazil | May 2019 - Nov 2019**

#### ➤ **WEB SOFTWARE DEVELOPER**

- Implemented features related to data table generation, storage and exporting through a Python/Flask/Vue.js web application.
- Implementation of features and maintenance of the system to attend our main client needs in their early days of the company

### **Mestria | ([mestria.com.br](https://mestria.com.br)) | Industrial Engineering Company | Belo Horizonte, Brazil | Aug 2018 - Jan 2019**

#### ➤ **EMBEDDED SOFTWARE DEVELOPER**

- Implemented industrial device firmwares in C/C++ language.
- Tested hardware and firmware specifications of industrial embedded devices (ESP32, PIC).

### Achievements

- Implementation of the firmware of an industrial low-energy bluetooth anemometer.
- Delivered an upgraded version of an industrial device with HTTP/JSON communication.
- Took a more scientific approach for modeling anemometer behavior which resulted in the implementation of a measurement correction algorithm in the embedded device.

### GENERAL SKILLS

- **Technical skills:** C#, .NET, typescript, javascript, Next.js, SQL, Python, cloud functions, REST API, microservices, agile development, graphql
- **Language skills:** Portuguese (Native) | English (Professional Proficiency)

### PROJECTS

- **[Nov 2021]** Creation and deployment of a landing page (html/css) for a musician friend ([stefannilanza.com.br/](https://stefannilanza.com.br/)).
- **[Mar - Jun 2022]** Creation, deployment and maintenance of a web application (Vuejs/.NET/SQL Server) for registering psychologists certified in a course ([mahalila.azurewebsites.net/](https://mahalila.azurewebsites.net/)). Configuration of the CI/CD pipeline in Azure DevOps.