VICTOR FERNANDES

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I am a Senior Front-end Engineer with a background in Electrical and Computer Engineering. Although I started my career in Computer Vision, Machine Learning, and Pattern Matching, I soon discovered my passion for front-end development. I am motivated by developing clean, reusable code that results in high-quality software. I enjoy streamlining the CI/CD pipeline and improving quality assurance processes. My interest in minimal design and creating usable UIs for products led me to specialize in front-end development.

WORK EXPERIENCE

SENIOR FRONTEND ENGINEER

Rows / Remote   03/2021 — present

Rows is a startup company revolutionizing the spreadsheet industry with its "supercharged" version of the traditional spreadsheet.

To enhance the performance of our web application, I designed an internal tool that measures the performance in the pipelines, providing valuable data during the refactoring and feature development process. I also took the initiative to design and implement new features from the ground up, such as the function wizard, data tables, and pivot tables. In addition, I assisted with several refactors, ensuring a smooth and efficient development process.

Beyond these core contributions, I have also developed a color picker that enhances readability when we have a background color. Recently, I developed and shipped the RowsX (Google Chrome extension) from scratch, a powerful tool for scraping web pages and importing data into Rows.com.

Technologies:

`React` `MobX` `WebdriverIO` `Apollo` `GraphQL` `WebWorker` `Konva` `Puppeteer` `JSPerf`

FRONTEND ENGINEER

Talkdesk / Porto, Portugal   06/2019 — 03/2021

At Talkdesk, developed and improved the performance and reliability of the Studio application, a graph-based tool for managing workflows. Implemented a canvas-based solution to improve the user experience and contributed to improving the performance and reliability of end-to-end tests, which played a crucial role in ensuring the quality of products. Created helpful tools to automate steps of the deployment process of some services using Node.js.

Technologies:

`React` `Redux` `WebdriverIO` `HTML Canvas` `Node.js` `Puppeteer`

FRONTEND ENGINEER

Feedzai / Porto & Lisboa, Portugal   05/2017 — 03/2019

At Feedzai, migrated the front-end from BackboneJS to React, updated the webpack configuration, automated front-end pipelines, and developed tools to enhance the developer experience. Additionally, I created an ESLint configuration for multiple UI products across the company.
I led the Front-End and QA teams for the development and launch of Feedzai Genome and also I contributed to DevOps.
In this project, I was able to:

- Start to be more focused on the development of software focused on performance.
- Due to their scenario (having more than 10,000 nodes graph in browser) we needed to develop a custom-based canvas framework to bring the best performance and UX into the browser.
- Work with cypress.io to automate our development and production pipelines.
- Start to work close to gitlab.ci to create our CI/CD pipelines.
- Use puppeteer to create a web app performance tool.

Technologies:

Webpack · Backbone · React · Redux · D3.js · Web APIs · Node.js · Cypress.io · Gitlab CI

SOFTWARE ENGINEER

MOG Technologies / Maia, Porto, Portugal   10/2013 — 05/2017

At MOG, a provider of multimedia solutions using open industry standards, I built SkyWatch, an application that streamlines media asset workflows and production environment management for broadcasters. As a Front-End Developer, I defined the product architecture, made technical decisions, and built the SkyWatch Single Page Application using HTML5 and JavaScript (Backbone.js, require.js, Ractive, and other frameworks). I also created unit tests for our UI code, led a major refactoring process, automated our front-end development and deployment tasks, and mentored junior developers. I implemented features using web browsers' native Web APIs and contributed to other projects, such as making the CI pipeline autonomous and creating back-end services.

Technologies:

C++ · OpenCV · Backbone · React · Web APIs · Node.js · MPEG Dash · Jenkins · Gitlab

EDUCATION

MASTER'S DEGREE IN ELECTRICAL AND COMPUTER ENGINEERING

Instituto Superior de Engenharia do Porto / Porto, Portugal   2012 — 2014

BACHELOR'S DEGREE IN ELECTRICAL AND COMPUTER ENGINEERING

Instituto Superior de Engenharia do Porto / Porto, Portugal   2009 — 2011

EXTRACURRICULAR ACTIVITIES

I am a passionate outdoor person and I'm a creative enthusiast seeking a challenging and rewarding career in mountain guiding. I have a strong interest in planning and executing expeditions in nature, especially in climbing, mountaineering, skiing, and scuba diving. I thrill in the careful planning and execution of outdoor excursions, considering all aspects from route planning and gear selection to contingency planning and safety measures. I find that this type of planning, coupled with the adrenaline rush of outdoor sports, creates a unique and rewarding experience.

In addition to my passion for outdoor leadership and adventure, I also enjoy cinema, photography, and music, which allow me to express my creative side.