# Weslley Victor da Costa Vieira

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## w3slley.github.io



## **ABOUT ME**

I utilize technologies such as JavaScript, Node.js, PHP and MySQL, having previous experience with Digital Ocean's VPS and the Heroku cloud platform. I also have experience with data analysis with Python and SQL. I'm passionate about learning and I have a special interest on back-end web development.

#### **EDUCATION**

Universidade do Porto (September 2018 – June 2021)

Major: Bachelor's Degree in Physics

Minor: Computer Science

CS Coursework: Data Structures and Algorithms, Databases,

Web Technologies, Functional Programming

#### LANGUAGES

Portuguese (Native) **English** (Fluent)

#### PROFESSIONAL EXPERIENCE

## Student intern at Centro de Astrofísica da Universidade do Porto (CAUP) astro.up.pt/caup/ February – September 2020

- ✓ Implemented a Python programming tool which used the Markov chain Monte Carlo statistical method to improve measurement on velocities of stars with the goal of setting constrains on dark matter present on ultra-faint dwarf galaxies.
- ✓ Utilized Object Oriented Programming to treat each star's spectrum as an individual component.
- ✓ Used libraries such as *numpy*, *pandas*, *matplotlib* and *astropy*.
- ✓ Applied tool to find the velocity dispersion and the average line of sight velocity of a ultra-faint dwarf galaxy, obtaining results with a 9% and 3% relative error compared to values on the scientific literature, respectively.

## PERSONAL PROJECTS

#### Personal blog

#### w3slley-blog.herokuapp.com

- ✓ Developed a personal blog and deployed it on the Heroku cloud platform.
- ✓ Utilized Node.is, and Express in the back-end and MySQL as the database.
- Used handlebars as the template engine.
- ✓ Implemented the MVC pattern across the application.
- Code highlighting was implemented with PrismJs and support for mathematical notation (LaTeX) was implemented with MathJax.

## github.com/w3slley/covid19-portugal-wikipedia Developed a Python script that parses the DGS

Wikipedia Covid-19 Tables/Graphs Generator

- website for daily Covid-19 reports and generates timeline graphs and summary tables with the goal of contributing to Portugal's Wikipedia page.
- ✓ Beautiful Soup, requests and urllib were used to find and download the reports.
- ✓ pdfminer was used to extract data from the PDF files and pandas was used for the data handling.
- ✓ Used *pytest* for unit testing.

#### Origami

## origamiwebapp.herokuapp.com

- ✓ Created Origami, a web application that allows users to write and store personal notes online.
- ✓ Used PHP as the server side language and MySQL as the database. Ajax (implemented with JQuery) was also used.
- Users can add, edit, delete and save locally all the notes created.

## **Endenda Mais**

#### entendamais.herokuapp.com

- ✓ Implemented the website for a science communication project called Entenda Mais (facebook.com/entendama1s).
- ✓ It has CRUD functionalities and readers can leave comments on each article.
- ✓ The project was developed using the PHP framework Laravel and MySQL.

## **TECHNICAL SKILLS**

Programming languages: JavaScript, Python, Java, PHP Front-end development: HTML5, CSS3, Bootstrap4, JQuery

Back-end development: Laravel, Node.js, Express

Databases: MySQL, MongoDB (familiar) Data analysis: pandas, numpy, matplotlib, SQL

Others: Git, Bash

