OTAVIO SARTORELLI DE TOLEDO PIZA

COMPUTER SCIENCE HONORS & DATA SCIENCE DOUBLE MAJOR

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ABOUT ME

Technical Skills	Python, Java, Jupyter Notebook, C/C++, Shell, Unix/Linux, Git, LaTeX
Frameworks	Express, React, MongoDB, PyTorch with Fastai
Languages	Portuguese (native), English (C2), German (B2), Spanish (B2)
Interests	Analysis and Design of Algorithms, Machine Intelligence, Classical Music, Literature, Photography

WORK EXPERIENCE

BRASA – Back End Developer   Sao Paulo, SP (2021.08 – present)

I am currently working on the development team for BRASA. I **built a Linktree like application** for the organization's members using Firebase and React. I also **developed the back-end for a messaging notification system** with Express.

BRASA – Summer Intern   Sao Paulo, SP (2021.06 – 2021.08)

I worked on the Summer Journey team (a program where students form groups to solve challenges proposed by leading Brazilian companies in many sectors, such as the financial and retail ones) where I was **responsible for the user experience of the companies and students** in the program.

PERSONAL PROJECTS

Algorithm Visualizer – github.com/OtavioPiza/algorithm-visualizer

Pursing my mission of making computer science more accessible, I created a website **using ReactJS** that allows users to **visualize how algorithms** work by directly **interacting with them**, controlling their flow, and **manipulating the input data**.

Project Euler 100 – github.com/OtavioPiza/project-euler

I created this project to give people insight into the **design process of efficient algorithms**, iterating through many possible solutions: **explaining their strengths and weaknesses**. The project consists of a series of Jupyter Notebooks where **all my logic is explained** and the **performance of each solution is demonstrated with plots**. I am currently studying different possibilities to host them online.

EDUCATION

Purdue University   West Lafayette, IN (2020.05 – Present)

- Bachelor of Computer Science Honors
- Bachelor of Data Science
- Grade Point Average: 3.97 / 4

Relevant Coursework

- Data Structures and Algorithms (Purdue CS 251) – Fall 2021
- Web Application Development (Purdue CS 390) – Fall 2021
- Practical Deep Learning for Coders (FASTAI) – Summer 2021
- Fullstack Development (Full Stack Open 2021) – Fall 2020
- Fundamentals of Computer Science (Purdue CS 182) – Fall 2020

STUDENT ORGANIZATIONS

LauchPad – Organizer

LaunchPad's goal is to pair first-year students with mentors to develop their ideas for a semester. I am currently **responsible for planning the events** for the Fall 2021 semester.

Association of Multicultural Computer Scientists – Program Executive

As the program executive, I am responsible for **organizing the practical aspects of all of our events**. Last semester I planned a Diversity Panel with guest speakers from **Boeing, Bloomberg, John Deere, and Raytheon**.

ACM – Member

I am currently studying deep learning methods and working on a digit recognition project.