Otavio Sartorelli de Toledo Piza

Computer Science Honors

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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 (2021.08 – present)

- Created a **unified authentication system**, which supports **multiple user types and access levels**.
- Established an **internal tool request and development process**, **reducing delivery time by 300%**.
- Refactored our API into a centralized domain-driven design, improving maintainability and expandability.

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 (2020.08 – 2024.05)

- Bachelor of Computer Science Honors.
- Grade Point Average: 3.96 / 4.00.
- Dean's List & Semester Honors: Fall 2020, Spring 2021, Fall 2021, Spring 2022.

Relevant Coursework

- Computer Security (Purdue CS 426) – Fall 2022
- Operating Systems (Purdue CS 352) – Fall 2022
- Information Systems (Purdue CS 348) – Fall 2022
- Software Engineering I (Purdue CS 307) – Spring 2022
- Systems Programming (Purdue CS 252) – Spring 2022
- Data Structures and Algorithms (Purdue CS 251) – Fall 2021

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.