João Cardoso

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GitHub: github.com/JoaoCardoso193 **Portfolio:** joaocardoso193.github.io

Education

Yale University – Astronomy B.A.

August 2017 – Expected May 2021

Relevant Courses: Software Engineering, Data Structures and Programming Techniques, Object-Oriented Programming, Introduction to Information Systems, Introduction to Programming, Research Methods in Astrophysics, Calculus of Functions of One Variable II, Calculus of Functions of Several Variables.

University College London – Study Abroad

September 2019 – January 2020

Relevant Courses: Quantitative Methods 2: Data Science and Visualization, The Knowledge Economy: Consultancy Project.

Experience

Flatiron School – Web Development Bootcamp

May 2020 – July 2020

- Gained hands-on experience with developing full-stack web applications using Ruby on Rails, JavaScript, HTML, CSS, and SQL; achieved the highest possible mark.
- Collaborated efficiently with other developers through GitHub and pair programming.
- Fully developed three original and interactive applications including a social media website and a fully-integrated web-game (see in portfolio).

University College London – Data Science and Visualization Project Leader

September 2019 – January 2020

- Led a team of 6 students in creating a data-based report analyzing gender equality evaluators as a function of economic performance in 50 European nations.
- Facilitated collaboration among the 6-person team; divided tasks based on expertise; developed a feasible timeline; kept team on task.
- Developed code that efficiently compiled and analyzed data from over 30 different data sets using Python and the Pandas data analysis library; produced multiple engaging visualizations of the data using Python.
- Interpreted results to oversee and produce a final report which achieved the highest possible mark.

Max Planck Institute for Astronomy – Interning Researcher

May 2019 – July 2019

- Independently constructed a Python-based data pipeline to process astronomical polarimetry data and create engaging visualizations in order to investigate the role of magnetic fields in the morphology of a star-forming infrared dark cloud.
- Discovered intriguing results and documented them in an academic paper to be published in the future.
- Presented results and visualizations in a forum to the rest of the institute.

Technical Summary & Skills

	Most Experience	Intermediate Experience	Some Experience
Programming Languages	Ruby, Python, JavaScript (ES6+), HTML, CSS, SQL	Java	C
Web Frameworks	Ruby on Rails	React.js	
Operating Systems	Linux, Mac OS, Windows		
Additional Software/Technologies	Git, Restful APIs, Node.js, Bash, Zsh, Markdown, VS Code, Audacity, Logic Pro X	LaTeX, Photoshop	Premiere Pro
Languages	English, Portuguese, Spanish	German	Italian
Technical Skills	Software Engineering, Web Development & Design, Object-Oriented Programming & Design, Asynchronous Programming, Parallel Programming, Complexity Theory, Debugging & Troubleshooting		
Technical Certifications	Data Structures and Algorithms		
Personal Skills	Teamwork, Leadership, Time Management, Project Planning, Negotiation, Public Speaking, Mindfulness		