João Cardoso

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

Education

Yale University – Astronomy B.A. & Programming Certificate

August 2017 – Expected May 2021

Relevant Courses: Software Engineering, Data Structures and Programming Techniques, Object-Oriented Programming, Computer Music: Sound Representation and Synthesis, 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+), C, HTML, CSS, SQL	Java, SuperCollider	
Web Frameworks	Ruby on Rails	React.js, React Native	
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		