

Joao Ricardo de Barros Atan

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PROFILE

MSc Distinction Graduate in Physics with extensive management, operations and HR experience. Successfully resolved over 100 complex employee relations cases, and hundreds of additional cases. Led UK-wide projects by supporting the launch of 3 new Amazon sites and was accolated with a certificate of excellence for outstanding performance as a result of my commitment to driving inclusivity in the workplace. Directed an up to 36-person team and oversaw full end-to-end operations of an Amazon Vendor Flex node for 2 years, delivering record-breaking outbound performance across consecutive peak holiday seasons (2024–2025). Additional experience includes B2B sales and customer service, and university and high-school-level tutoring.

Key skills:

- Mathematical modelling, numeracy and analytical skills developed by applying advanced concepts in Differential Geometry and Topology to develop formal mathematical descriptions of physical phenomena. For instance, in MSc Dissertation, titled '*The $SO(7,7)$ Structure of the Standard Model Fermions*', explored recent developments in the area of grand unification theories (GUTs), specifically extensions of the $SO(10)$ GUT to include gravity by embedding it, together with $SO(3,1)$, the Lorentz group, into a single gauge group in dimension 14. Following this construction, a unified description of a single generation of Standard Model (SM) fermions as differential forms, and the construction of the kinetic part of the SM fermionic Lagrangian through an appropriately defined inner product in $SO(7,7)$ were reviewed.
- Analytical thinking skills attained by developing and evaluating comprehensive HR analytics on key metrics, such as employee engagement and attrition, and presenting findings in weekly business reviews, driving data-informed decisions across the business.
- Excellent programming and IT skills (proficient in JavaScript, Python, C languages, Excel and others) acquired by taking computing, programming and data-analysis courses throughout MSc, as well as by completing several Codecademy courses, *e.g.* Web Development Foundations, Building Interactive Websites, Front-End Development and Back-End Development.
- Communication, teamwork and deadline management skills obtained by tending to employee cases as well as managing and analysing sensitive employee data; negotiating and securing business contracts; and maintaining client relationships throughout projects.

EXPERIENCE

VENDOR FLEX CLUSTER ASSISTANT, AMAZON UK SERVICES LTD.; SAWSTON, UK & CORBY, UK — OCTOBER 2024 - CURRENT

Currently working as a Vendor Flex Cluster Assistant. Acquired deeply refined operational management skills by expertly coordinating inbound, outbound, and quality control activities throughout a whole warehouse. Additionally, thorough people management skills were developed by managing an up to 36-people team, assigning daily responsibilities to each employee and designing daily shift plans, with the focus of creating ideal working environments that enhanced employee well-being and productivity.

Key achievements: Broke records for both highest hourly rate and highest total volume shipped during two consecutive holiday periods, 2024 and 2025.

HUMAN RESOURCES ASSOCIATE PARTNER (HRAP), AMAZON UK SERVICES LTD.; NOTTINGHAM, UK — OCTOBER 2021 – OCTOBER 2024

Worked as an Amazon HR Associate Partner (HRAP). Developed comprehensive skills in employee management, communication, project and time-management, data analysis and conflict resolution by tending to employee

queries, resolving arising issues and managing conflicts/dissatisfaction, managing projects with tight deadlines and working under pressure, and analysing employee and business data with relentless attention to detail, so as to recognise patterns and from them infer valuable information.

Key achievements: Conducted redundancy individual consultations, a responsibility typically handled by HR managers, ensuring compliance and providing support to affected employees; Supported the launch of 3 new Amazon sites across the UK by assembling a team of experienced employees and temporarily assigning them to the new sites in order to drive upskilling of the existing staff, and ensure the site's operational readiness; Gained a certificate of excellence due to my performance on the role, particularly regarding my commitment to inclusivity after organising a career and education programmes fair to employees.

HUMAN RESOURCES PARTNER (HRP), AMAZON UK SERVICES LTD.; NOTTINGHAM, UK — AUGUST 2022 – FEBRUARY 2023

Worked as an Amazon HR Partner (HRP), having been selected for a 6-month step-up position. Further developed skills in project-management, time-management, communication, and data analysis of people and business metrics. Responsible for managing complex employee cases; mediate and resolve internal conflicts, *e.g.* grievances; develop and implement site and regional level projects directly impacting thousands of employees; conduct statistical analysis of employee and business data; and liaise with senior members of the HR, Operations and Corporate divisions in order to communicate and implement business-impacting decisions.

Key achievements: Successfully completed over 100 complex employee relations cases including grievances, appeals, and sensitive conduct investigations; Delivered comprehensive HR analytics on key metrics such as attendance, employee engagement and attrition for weekly business reviews, liaising with senior leadership on site-level decisions.

FULFILMENT CENTRE ASSOCIATE, AMAZON UK SERVICES LTD.; NOTTINGHAM, UK — NOVEMBER 2020 - OCTOBER 2021

Worked as an Amazon Fulfilment Centre Associate; gained comprehensive stock management skills by dealing with the entirety of amazon goods. Received accolades and medals for repeatedly achieving the best performance during Peak Period in 2020.

SALES ASSISTANT, SSJ SERVIÇOS TÉCNICOS; RIO DE JANEIRO, BRAZIL — 2017-2019

Worked as Sales Assistant; gained communication skills and experience in customer support by tending for customer queries (B2B), securing business contracts and promoting the company's services to potential new customers; developed experience in working under pressure and managing tight deadlines.

CLASSICAL MECHANICS TUTOR, UNIVERSIDADE FEDERAL DO RIO DE JANEIRO; RIO DE JANEIRO, BRAZIL — MARCH 2017 - JULY 2017

Responsible for tutoring classical mechanics to undergraduate students; improved didactic, coaching and communication skills by organising academic lecture plans, leading coaching groups for general academic skills, and tending to queries from students with diverse learning styles and different backgrounds.

TUTOR, COLEGIO QI (HIGH SCHOOL); RIO DE JANEIRO, BRAZIL — 2015-2017

Responsible for tutoring high school-level physics and mathematics to students; Enhanced communication, organisation and didactic skills by preparing and giving lectures as well as tending for any doubts or queries in physics and mathematics subjects; developed teamwork skills by preparing combined physics-mathematics lectures with the mathematics tutor; developed time-management and organisational skills by working under deadlines.

EDUCATION

DISTINCTION MSc DEGREE IN GRAVITY, PARTICLES AND FIELDS, UNIVERSITY OF NOTTINGHAM; NOTTINGHAM, UK — 2019-2020

Modules Included: Quantum Information Theory; Quantum Field Theory; Advanced Gravity; others
GPA 80%
Awarded a Master's scholarship due to academic excellence.

1st CLASS BACHELOR'S DEGREE IN PHYSICS, FEDERAL UNIVERSITY OF RIO DE JANEIRO, RIO DE JANEIRO, BRAZIL — 2015-2019

GPA 82%
Awarded a financial scholarship and Honourable Mention for my research project.

Online Courses

FULL-STACK SOFTWARE ENGINEER CAREER PATH – CODECADEMY – 2025

PRACTICAL PYTHON FOR AI CODING I - KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST) - 2022 - OFFERED THROUGH COURSERA

SKILLS

IT

Programming skills:

- **Languages:** JavaScript (ES6+), TypeScript, PHP, Python, SQL, MATLAB, C, C++, Java, C#, HTML5, CSS3
- **Front-End Frameworks/Libraries:** React.js, jQuery
- **Back-End/Runtime:** Node.js, Express.js
- **Tools/Other:** Git, LaTeX

Advanced user in:

- Microsoft Office (Excel, Word, PowerPoint and etc)
- Data analysis software: MATLAB, NumPy, gnuplot, matplotlib, Wolfram Mathematica

LANGUAGE

- Native in Portuguese
- Native-level English
- Fluent in Spanish