

CURRICULUM VITÆ - João GALEGO

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I am a certified Physics nerd and an amateur forensic scientist with a keen interest in challenging problems with real-world applications. Over the years, I've worked as a data analyst, software tester, test automation engineer, DevOps engineer and ML consultant for several companies, in areas ranging from market research to fiber optic telecommunications and mobility. Currently, I work as a DevOps engineer and ML consultant at the Siemens Lisbon Tech Hub, while pursuing a PhD degree in Cognitive Science at Universidade de Lisboa. My research focuses on the application of ML algorithms to improve the performance of EEG-based brain-computer interfaces.

PROFESSIONAL EXPERIENCE

Siemens

2019 – Present

DevOps Engineer / ML Consultant

- Cloud solutions architect and administrator for 10+ applications running on AWS and Azure
- Lead contributor to 200+ Ansible roles, Terraform modules and Docker images
- Organized workshops and trainings on DevOps, AI/ML and quantum computing
- Performed technical assessment in 20+ interviews
- Supervised 10+ interns and trainees
- Junior member of the IT Key Experts program (Data-driven Enterprise & Augmented Intelligence)
- SITEX class of 2021 working on Industrial Edge platforms and applications
- Member of DI IT Architecture Guild

Innowave

2017 – 2019

DevOps Engineer

- Designed and implemented test frameworks and automated tests for multiple projects and customers
- Organized internal and customer-oriented workshops and trainings on CI/CD, DevOps and test automation
- Served as technical writer and reviewer working together with software architecture teams

Coriant

2014 – 2017

Test Automation Engineer

- Increased test automation coverage by 5-fold in less than 2 years
- Managed a Jenkins cluster with 20+ build agents

EDUCATION

Universidade de Lisboa

2017 – Present

PhD Cognitive Science

- **Title:** *From Thought to Action - Machine Learning Techniques for Processing Electrophysiological Signals in Brain-Computer Interfaces*
- **Advisors:** Prof. Hugo Ferreira (IBEB/FCUL), Prof. Arlindo Oliveira (INESC/IST)
- **Keywords:** brain-computer interfaces, EEG, biosignal processing, riemannian classification, deep learning

Instituto Superior de Ciências Sociais e Políticas

2016 – 2017

PgD Forensic Studies

Instituto Superior Técnico

2008 – 2013

MSc Physics

- **Title:** *Flavour Aspects of Multi-Higgs Models* | **Grade:** 19/20
- **Advisors:** Prof. Gustavo Castelo Branco (CFTP/IST)
- **Keywords:** standard model, CP violation, discrete groups, flavour symmetries, multi-Higgs doublet models

CERTIFICATIONS



AI Product Manager Nanodegree

2021

Udacity

Course organized in collaboration with Appen on how to develop AI products that deliver business value.

Self-Driving Car Engineer Nanodegree

2021

Udacity

Autonomous driving course organized in collaboration with Waymo and Mercedes-Benz covering several topics in computer vision, sensor fusion, localization, path planning, control and systems integration.

AWS Certified Machine Learning - Specialty

2020

Amazon

Specialty exam to assess the candidate's ability to design, implement, deploy, and maintain ML solutions.

Fundamentals of Digital Marketing

2020

Google

Free digital marketing course accredited by Interactive Advertising Bureau Europe and The Open University

Microsoft Certified Azure Fundamentals (AZ-900)

2020

Microsoft

Azure certification covering fundamental cloud concepts, Azure services, Azure workloads, security and privacy in Azure, as well as Azure pricing and support.

Associate Android Developer

2018

Google

Entry-level exam that includes a coding project and exit interview, covering topics related to app functionality, UI and data management, as well as debugging and testing of Android apps.

Certified Jenkins Engineer

2016

Cloudbees

Official certification covering core Jenkins concepts, Pipeline and Jenkins administration fundamentals.

Machine Learning

2014

Coursera

Introductory MOOC on machine learning taught by Andrew Ng.

TECHNICAL SKILLS

Cloud Platforms: AWS, Azure, Google Cloud

Programming Languages: C/C++, Go, Java, MATLAB, Python, Ruby

Tools: Ansible, Docker, Packer, Terraform

HONORS & AWARDS

IBM QGSS21 Certificate of Quantum Excellence

2021

IBM

Two-week intensive quantum computing summer school organized by the IBM Qiskit team with a focus on quantum machine learning. Quantum excellence certificates were issued to those who completed *all* graded lab work assignments with a final cumulative score above 75%.

For more information, check out the official announcement on the IBM research blog

IBM Quantum Challenge - Advanced, 1st Place

2021

IBM

Quantum computing hackathon organized by IBM to celebrate the 40-year anniversary of the *Physics of Computation* conference, and 5-year anniversary of IBM Quantum.

Exercises included factoring small integers with Shor's algorithm, running spectroscopy experiments against *real* IBM Quantum systems (w/ exclusive access to the brand new IBMQ Jakarta) using Qiskit Pulse and determining the ground state energy of small molecules (H_2 , LiH) using VQE

For more information, check out the official announcement on the IBM research blog

Udacity Technology Scholarship - AI Track

2021

Udacity / Bertelsmann

Full scholarship to attend Udacity's AI Product Manager nanodegree

QHack 2021 QML Challenge - Top 50

2021

Xanadu / AWS

Quantum machine learning hackathon hosted by AWS and Xanadu

For more information, read my *QHack Recap - PennyLane, Amazon Braket and Beyond* article on Medium

SITEX 2021 - Industrial Edge, 1st Place

2021

Siemens

Bring simulation (Tecnomatix® PlantSim) and optimization (Simcenter HEEDS) to the factory floor and low code platforms (Mendix) to the Industrial Edge landscape as part of a strategic development program for the innovation and technology community in the Siemens hemisphere.

AI@Sustainability Hackathon - Technical Excellence (Team Mobility)

2020

Siemens

Built an application in collaboration with *Swiss Federal Railways* (SBB) and based on Amazon SageMaker to predict the *traffic volume* and *modal split* for a specific weather constellation and time based on a large set of real-world data points.

Associate Android Developer Fast Track Program Scholarship

2016

Google / Udacity

Full scholarship to attend Udacity's fast track course and take the Associate Android Developer exam

Junior Research Scholarship

2013

Fundação para a Ciência e Tecnologia (FCT)

Scholarship for undergraduate students to work at the *Center for Theoretical Particle Physics* (CFTP)

LANGUAGES

Deutsch (elementary proficiency), English (full professional proficiency), Español (professional working proficiency), Français (professional working proficiency), Italiano (elementary proficiency), Português (native)