

# CURRICULUM VITÆ - João GALEGO

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I am a certified Physics nerd and an amateur forensic scientist with a strong inclination towards interesting and challenging problems. 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

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### Siemens

2019 – Present

DevOps Engineer / ML Consultant

- Cloud solutions architect/administrator of 10+ applications running on AWS and Azure
- Lead contributor to 100+ Ansible roles, Terraform modules and Docker images
- Deployed and managed a Nagios-based monitoring system on-premises serving 500+ instances
- Organized workshops and trainings on DevOps, machine learning and quantum computing
- Performed technical assessment in 20+ interviews
- Supervised 10+ interns and trainees

### Innowave

2017 – 2019

DevOps Engineer

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

### 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

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### 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

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### Self-Driving Car Engineer Nanodegree

Udacity

2021

### AWS Certified Machine Learning - Specialty

Amazon

2020

### Fundamentals of Digital Marketing

Google

2020

### Microsoft Certified Azure Fundamentals (AZ-900)

Microsoft

2020

### Associate Android Developer

Google

2018

### Certified Jenkins Engineer

Cloudbees

2016

## TECHNICAL SKILLS

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**Cloud Platforms:** AWS, Azure, Google Cloud

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

**Tools:** Ansible, Docker, Packer, Terraform

## HONORS & AWARDS

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### QHack 2021 QML Challenge - Top 50

Xanadu / AWS

Quantum machine learning hackathon hosted by Xanadu and AWS

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

### AI@Sustainability Hackathon - Technical Excellence (Team Mobility)

Siemens

Built an application on top of Amazon SageMaker together with Swiss Federal Railways (SBB) to predict the traffic volume and the 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

Google / Udacity

Full scholarship to audit Udacity's Android preparation course and take the Associate Android Developer exam

### Junior Research Scholarship

Fundação para a Ciência e Tecnologia (FCT)

A scholarship for undergraduate students to work at the Center for Theoretical Particle Physics (CFTP)

## LANGUAGES

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