

DUARTE O.CARMO

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EXPERIENCE

- 2021 **[Self-employed, Independent Consultant - Denmark](#)**
Helping startups and established companies in the areas of Data Engineering, Machine Learning, and Software Engineering
- Designed and developed first version of ML-based product for Belgium-based startup in Sustainable investing space
 - Built solution for Danish startup allowing the streamlining and organizing of large amount of information
- 2021 **[DSB – Danske Statsbaner, Machine Learning Engineer - Denmark](#)**
Largest train operating company in Scandinavia. DSB has more than 195 Million passengers every year
- Designed foundation for "ATLAS": data mgmt. framework allowing automated ingestion of large amounts of data
 - Built and deployed application that analyzes incidents in railway network, responding to questions from executive board
 - Designed and delivered Machine Learning and AI Strategy for 2024 - approved by C-level management and board
- 2020 **[Boston Consulting Group - Platinion, Technology Consultant/Architect – Denmark](#)**
Unit within the Boston Consulting Group focusing on Technology. BCG delivered 8.5 Billion USD revenue in 2019
- Lead the analysis of IT infrastructure of a major scandinavian financial institution uncovering +30 USDm in potential savings
 - Created 4 mathematical models for migrating critical on-site infrastructure to Public Cloud, using data analysis and Big data tools
 - Developed the Cloud adoption Strategy (e.g., AWS, GCP) that paved way for Cloud adoption in a major nordic financial institution
- 2019-2020 **[Jabra – GN Audio, Digital Consultant – Denmark](#)**
The fastest growing company in the global professional headset market. 900 Million USD revenue in 2019, with 26% growth
- Coordinated Data and Research in development of an AI based software product, lead pilot in USA office (40+ users)
 - Responsible for research and technical solution pitch, delivering more than 3000 potential users in 3 months
 - Received a manager assessment of 5/5: "Continually receives outstanding feedback from subordinates, peers and customers"
- 2019 **[Jabra – GN Audio, Junior Product Manager – Denmark](#)**
- Responsible for all areas (engineering, sales, R&D, biz dev.) of 2 products, 16.000 and 300.000 units sold accordingly in 6 months
 - Assisted top management in strategic analyses for M&A activities. Responsible for quarterly board presentation
 - Used pandas and python to establish an automatic data analysis workflow that saved time and increased analysis accuracy
- 2017 – 2018 **[Jabra – GN Audio, Student Analyst in Strategy and Business Development – Denmark](#)**
- Reported to the VP of Strategy and Consumer Business
 - Developed 5 internal automation tools used by +30 people. By using them, each executive saved more than 4 hours a month
- 2017 **[Bliss Applications, Intern – Boston, USA](#)**
One of the leaders in software development in Portugal. It employs 230 people. It has offices in Portugal, USA, and Brazil
- Built a program for the sales department that analyses leads and ranks them according to user preferences
 - Worked with 3 clients to transform their ideas into viable technology products. Industries: Health, Entertainment and Social Media
- 2015 – 2016 **[WYGroup, Resident Entrepreneur – Portugal](#)**
WYGroup is one of the leading players for digital marketing and technology services in Portugal, and has been for the last 16 years
- Co-Founder and creator of eGuru. A start-up that focuses on crowdsourced deliveries and that raised 150K in funding

EDUCATION

- 2016 – 2018 **[Technical University of Denmark, Master in Engineering Management – Denmark](#)**
- Courses such as: Technology Management, Computational Tools for Big Data, Social Graphs and Interactions, and Machine Learning
 - [Thesis](#): "The uniqueness of technological capabilities: a data-driven network exploration", grade of 12/12 ([Paper published](#))
 - Final degree average grade of 10/12 (4.0 GPA)
- 2015 – 2016 **[Beijing Institute of Technology, Semester Abroad – China](#)**
- Electrical Engineering studies, including subjects about Digital Logic Circuits, CPU, and Computer Controlled Systems
- 2011 – 2015 **[Instituto Superior Técnico, Bachelor in Engineering Sciences – Portugal](#)**
- Finished among the top 30% of the class. Grade of 19/20 in the final project of the Computer and Programming class (Best of class)

SKILLS

Languages	Portuguese – Native; English – Fluent (Certificate of Proficiency in English); French – Fluent (French Baccalaureate); Spanish – Very Good User (B2); Italian - Very Good User (B2); Chinese – Basic (Course at BIT Beijing)
Programming	Python (proficient), JavaScript (good), Html (very good), CSS (very good), C++ (good). Object Oriented Programming and TDD
Data	Data Analysis, Data Scraping, Network Analysis, Machine Learning, Deep Learning. (Pandas, Numpy, Scipy, Scikit, TF)
Open Source	Open source contributor to JupyterLab and PaperMill. Publisher of think cell python package
Technologies	Git, Linux, Fast API, Django, Node.js, MongoDB, SQL, PostgreSQL, Graph QL, Restful APIS, Async, Docker, CI, AWS, GCP, Azure
Blogging	Regular blogger about programming and open source. Appearances in Python blogs and programming podcasts

HOBBIES

- Regular blogger about programming, Python, machine learning, and web development
- Visited over 80 different countries in the world
- Marathon runner, running 50km/week on average