DUARTE O.CARMO

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EXPERIENCE

2022 — **Self-employed, Technology Consultant - Denmark**

Helping startups and established companies solving challenging problems with Machine Learning, Data, and Software Engineering
- Helped customer leverage NLP/Audio/Video models to create corporate multi-modal search engine - SWE venture firm
- Leveraged SOTA generative models to create MVP of a new SKU for client in under 3 weeks - YC USA scaleup
- Lead ML department through development of 6 end-to-end ML pipelines to >1000 daily active users - YC USA scaleup
- Developed 4 end-to-end NLP models that categorize 50M+ people to facilitate lead prospecting - YC USA scaleup
- Built large scale end-to-end data pipeline to analyze text from millions of companies for ESG reporting - BE based startup
- Created similarity search engine for millions of pharmaceutical drugs - DK based startup

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)
- 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

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
- 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

SKILLS

Speaking/Writing	Writer with avg. 2K/month pageviews. PyCon keynote speaker. Several Appearances in podcasts and blogs. See talks.
Programming	Python, C++, Rust, Javascript, Go. OOP, TDD, Low Latency, Distributed systems
Areas	ML/Data Pipelines, Network Analysis, Machine Learning/ Deep Learning, MLOps, Software Engineering, System Design
Technologies	Git, Linux, Fast API, Django, Node.js, MongoDB, SQL, PostgreSQL, Graph QL, Restful APIS, Async, Docker, CI, AWS, GCP, Azure
Languages	Portuguese – Native; English – Fluent; French – Fluent; Spanish – Very Good User; Italian - Very Good User; Chinese – Basic

EDUCATION

2016 – 2018 — **Technical University of Denmark, Master in Engineering Management – Denmark**
- Technology Management, Big Data, Social Graphs, Machine Learning. Final degree average grade of 10/12 (4.0 GPA)
- Thesis: "The uniqueness of technological capabilities: a data-driven network exploration", grade of 12/12 (Paper published)

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)

HOBBIES

- Visited over 80 different countries in the world
- Marathon runner, running 50km/week on average (avg. 3 marathons/year)