Pedro Madruga

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Education

Sep 2006 | March 2012
MsC in Environmental Engineering, *Nova University Lisbon*, *Lisbon, Portugal*.

November 2019 | November 2019
Course in Machine Learning, *Danmarks Tekniske Universitet*, *Copenhagen, Denmark*.

Experience

June 2020 – Present
Data Scientist, *JohnConnor.ai - Analytics and Machine Learning*, Copenhagen, Denmark.
- Applied Google Search Algorithm to Danish dataset
- Recommender Engine improvement for client
- Founder

May 2017 – Present
Senior Software Engineer & Data Scientist, *Karnov Group Denmark A/S*, Copenhagen, Denmark.
- Data Science: Led project to improve search results using neural networks
- Data Science: Collaborated on recommender systems project
- Analytics: Determined browser performance bottlenecks
- Implemented DevOps solutions using Docker and Google Cloud Platform
- Developed and timely delivered multiple applications (frontend and backend) using Javascrip DevOps solutions using Docker and Google Cloud Platform
- Lead the initial direction of the JavaScript-based application and development guidelines
- Participated on architectural decisions

June 2013 – Present
Founder and software engineer, *Occam.ooo*, Frederiksberg, Denmark.
- Led team and project of a mobile app (using JavaScript) for Mobilab (Germany)
- Senior mobile engineer (JavaScript) for WithDipp (USA)
- Performed overall management of the company
- Design, Engineered and delivered mobile app (Nu Events) (https://nuapp.occam.ooo/)

June 2016 – October 2016
Lead developer, *colego.dk*, Copenhagen, Denmark.
- Led local and remote team
- Reimplemented internal CMS using JavaScript

July 2015 – May 2016
Senior Frontend Engineer, *colego.dk*, Copenhagen, Denmark.
- Lead frontend engineer (using JavaScript) and frontend architect
- Developed and delivered backend solutions

February 2014 – June 2015	**Frontend developer**, *Unwire*, Copenhagen, Denmark. ○ Developed and timely delivered mobile app for Nordea ○ Implemented internal mailing list manager
September 2013 – February 2014	**Frontend developer**, *Competencehouse*, Copenhagen, Denmark. ○ Implementation of the Godialog platform
November 2012 – August 2013	**Data analyst**, *Copenhagenize Design Co.*, Copenhagen, Denmark. ○ Analyzed data of cyclists' behaviour in Copenhagen ○ Analyzed data for the Copenhagenize Index 2013 ○ Implemented company's website ○ Calculated environmental impacts of 30km/h zones

Projects

Machine Learning technicques applied to Heart Rate Variability (2018), *Python, Pandas, Keras, Matplotlib, Jupyter notebook*.

Final project for the ML Course at DTU.

https://pedromadruga.com/pm_ml_dtu_oct2019.pdf

The Bicycle Choreography of an Urban Intersection, *Excel, SPSS*.

Data analysis of cyclists' movements in Copenhagen (2012)

https://pedromadruga.com/bicycle-choreography-copenhagenize.pdf