

Pedro Madruga

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Education

Sep 2006 | **MsC in Environmental Engineering**, Nova University Lisbon, Lisbon,
March 2012 *Portugal.*
November **Course in Machine Learning**, Danmarks Tekniske Universitet, Copenhagen,
2019 | *Denmark.*
November
2019

Experience

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

May 2017 – **Senior Software Engineer & Data Scientist**, Karnov Group Denmark A/S,
Present 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
 Javascrpt 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 – **Founder and software engineer**, Occam.ooo, Frederiksberg, Denmark.
Present ◦ 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 – **Lead developer**, *colego.dk*, Copenhagen, Denmark.
October 2016 ◦ Led local and remote team
◦ Reimplemented internal CMS using JavaScript

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

- February **Frontend developer**, *Unwire*, Copenhagen, Denmark.
- 2014 – June
2015
- Developed and timely delivered mobile app for Nordea
 - Implemented internal mailing list manager
- September **Frontend developer**, *Competencehouse*, Copenhagen, Denmark.
- 2013 –
February
2014
- Implementation of the Godialog platform
- November **Data analyst**, *Copenhagenize Design Co.*, Copenhagen, Denmark.
- 2012 –
August 2013
- 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 techniques applied to Heart Rate Variability, *Python, Pandas, Scikit-Learn, Keras, Jupyter Notebook*.

Final project for the ML course at DTU (2019).
http://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>