# Pedro Madruga

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### **Education**

**Nova University Lisbon** 

Lisbon, Portugal

Sep 2006 - March 2012

MSC IN ENVIRONMENTAL ENGINEERING

Copenhagen, Denmark

November 2019 - November 2019

**Danmarks Tekniske Universitet** COURSE IN MACHINE LEARNING

## Experience \_

#### Karnov Group Denmark A/S

Copenhagen, Denmark

May 2017 – Present

June 2013 - Present

SENIOR SOFTWARE ENGINEER AND MACHINE LEARNING ENGINEER TRAINEE

- Led project to improve search results using neural networks
- Collaborated on recommender systems project
- · Developed and timely delivered multiple applications (frontend and backend) using Javascript
- Lead the initial direction of the JavaScript-based application and development guidelines
- Participated on architectural decisions
- Implemented DevOps solutions using Docker and Google Cloud

Occam.ooo Frederiksberg, Denmark

FOUNDER AND SOFTWARE ENGINEER

- 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/)

colego.dk Copenhagen, Denmark

LEAD DEVELOPER

June 2016 – October 2016

- · Led local and remote team
- · Reimplemented internal CMS using JavaScript

colego.dk Copenhagen, Denmark

SENIOR FRONTEND ENGINEER

- July 2015 May 2016 • Lead frontend engineer (using JavaScript) and frontend architect
- Developed and delivered backend solutions

Unwire Copenhagen, Denmark

FRONTEND DEVELOPER

- February 2014 June 2015 • Developed and timely delivered mobile app for Nordea
- Implemented internal mailing list manager

Copenhagen, Denmark

Competencehouse

FRONTEND DEVELOPER September 2013 - February 2014 · Implementation of the Godialog platform

#### Copenhagenize Design Co.

DATA ANALYST

- · 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

Copenhagen, Denmark November 2012 - August 2013

## Skills\_\_\_\_

Programming Languages / Frameworks: React, Node, Python, PostgreSQL, Python, Angular, Backbone, React Native Machine Learning / Data Science: Natural Language Processing, Recommender Systems, Keras, Pytorch, Jupyter Dev Ops: Docker, Google Cloud Kubernetes

## Projects \_\_\_\_\_

#### Machine Learning techniques applied to Heart Rate Variability

FINAL PROJECT FOR THE MACHINE LEARNING COURSE AT DTU. ESTIMATED: JANUARY 2020

React Native, Node

Python, Jupyter Notebooks

**Nu - Events today**Mobile APP (IOS + ANDROID)

https://nuapp.occam.ooo/

The Bicycle Choreography of an Urban Intersection

DATA ANALYSIS OF CYCLISTS' MOVEMENTS IN COPENHAGEN

Excel, SPSS http://tiny.cc/caxahz