



Manon Fouquet, PhD

PROJECT LEADER - DEVELOPPER
WITH EXPERTISE IN APPLIED
MATHEMATICS

France
Eure (27)
+33 (0)6 41 69 70 83
ms.manonfouquet@gmail.com
LinkedIn
Projetet: network simulator

Summary

I have worked as a software developer and project manager for 7 years in the energy sector. I have managed and/or contributed to the development of several industrial codes involving numerical optimization and algorithm design (e.g. clearing algorithms for the european energy markets, various energy optimization models). My last experience is as backend developer on a web application to assist RE producers in their operational tasks.

I have a strong interest in understanding the business aspects of the projects I work on and I appreciate having project management responsibilities.

Work experience

- Backend developer - Stroom Energy, Paris
2022 - present
Web app for RE producers & aggregators in Ruby on Rails, React + Python services
- Project leader, optimization engineer - Artelys, Paris
2016 - 2022
Development of numerical optimization code and heuristics, applied to energy systems, energy markets and logistics.
Web experience: electrical network simulation tool (see link above)
Technos: Java/ Python/ Mosel/ AMPL/ Knitro/ Docker/ git / SQL/ Javascript/ React/ NodeJS/ Webpack
- PhD - EDF/CentraleSupélec
2013 - 2016
Model Predictive Control and optimization of energy plants, based on 1st principle models. MATLAB, Modelica, JModelica
- Internship - Mastère OSE - EDF R&D
2012
Modelica library for quick sizing energy plants
- Internship- thermal engineering - TitanX, Sweden
2011
Heat exchanger computation software, numerical methods for simulation and parameter fitting

Skills

Modelling, optimization, algorithms

Energy systems

Data Science

Frontend

Project management

Python

Ruby on Rails

Education

- online classes on data science, DataCamp / Udacity / Coursera
2016 - present
>200h, as a hobby
- Front End Web Developer, Udacity
June - October 2020
4-month program
- PhD in automatic control, CentraleSupélec, France
April 2013 - March 2016
- Post master specialization in energy system optimization, Mines Paristech
September 2011 - September 2012
- Master degree of engineering, ESSTIN
September 2006 - September 2011
Energy/Fluid mechanics/ Computer science and automatic control.
1.5 year in Sweden
- Baccalauréat Scientifique - Highest honors
June 2006

Languages

French
native speaker

English
bilingual

Swedish
fluent

Spanish
intermediate

Hobbies

Climbing, rowing, karate

Wood work, plumbing, eco-building techniques

Bike touring