



Manon Fouquet, PhD

FULLSTACK DEVELOPPER,
PROJECT MANAGER

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LinkedIn

Projetct: network simulator

Portfolio

Summary

I have worked as a developer and project manager for 6 years, on complex projects related to numerical optimization. I have developped or supervized the development of many large scale industrial codes, such as market clearing algorithms for the energy sector in Europe and optimization models of energy systems. I am enthusiastic and well organized in my work. I love to constantly learn new techniques and to apply them. I am now seeking a data scientist or fullstack developer job, ideally on topics with a positive impact on society (e.g. healthcare, sustainable energy or building)

Skills

Modelling, optimization, algorithms



Data Science



Energy systems



Frontend



Python



Project management



Java



GIT



Languages

French

native speaker

English

bilingual

Spanish

intermediate

Swedish

fluent

German

intermediate

Hobbies

Climbing, rowing, karate

Wood work, plumbing, eco-building techniques

Bike touring

Work experience

Project manager, developer - Artelys, Paris

May 2016 - June 2022

Developement 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/ Node.JS/ Webpack

PhD - EDF/CentraleSupélec

March 2013 - March 2016

Model Predictive Control and optimization of energy plants, based on 1st principle models. MATLAB, Modelica, JModelica

Internship - Mastère OSE - EDF R&D

March - September 2012

Modelica library for quick sizing energy plants

Internship- thermal engineering - TitanX, Sweden

February - August 2011

Migration of a heat exchanger computation software, and integration of new numerical methods for simulation and parameter fitting

Education

DataScientist, Udacity

August 2022

Front End Web Developer, Udacity

June - October 2020

Machine learning (Andrew Ng), Coursera

June - October 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. One year as exchange student in Sweden

Baccalauréat Scientifique - Highest honors

June 2006