



PERSONAL INTERACTIVE WEBSITE : [THEOSTASSEN.SPACE](https://theostassen.space)

Core Skills

* SOFTWARE ENGINEERING * PYTHON DEVELOPMENT * ARTIFICIAL INTELLIGENCE *
* MACHINE LEARNING * FULL STACK WEB DESIGN * DATA ANALYSIS *
* VERSATILITY * ADAPTABILITY * COMMUNICATION *

Work Experience

Feb 2023 - **Research Engineer in computer science applied to astrophysics**, *French and English, Laboratoire de physique des plasmas (Laboratory of Plasma Physics, LPP), attached to the CNRS (National Center for Scientific Research), Sorbonne Université, Ecole Polytechnique, Université Paris-Saclay and Observatoire de Paris, in collaboration with ESA (European Space Agency), Paris, France.*

Main contribution : "**ESA JUICE Mission - RPWI SCM**", Software development as part of the international spatial mission led by the *European Space Agency (ESA)*. Worked as software engineering/data referent inside a astrophysicists team, in collaboration with various scientists. Developing a data processing software, calibrating (implementing mathematically complex filters) and analyzing time-series data, to deliver robust usable science data for scientists. The software is integrated in an international data pipeline, implying future-proofness. Including Python, PyCharm, Numpy, Pandas, Sphinx, High software quality precepts, Git, Linux, Matlab, IDL, C++.



Jan 2021 - **Research Engineer**, *French, CeCoTePe / Centre de Coopération Technique et Pédagogique (Center of Technical and Pedagogical Cooperation), Haute École de la Province de Liège (University College of the Liège Province), Liège, Belgium.*

Dec 2022

Main Contribution : "*DynaList / SLS*", Frontend development of an innovative Dynamic Clinical Checklist web application, *Dynalist*, as part of *SLS (Surgical Logistics System)*, a regional public project that aims to connect medical programs together, developed by a consortium including research centers, wallonian companies and french / wallonian regional hospitals. Worked as software referent in an engineering teams in direct collaboration with a wide range of professions (Salespersons, Doctors, Nurses, Anesthetists, etc.). Developing a web application designed to help nurses and hospital members using dynamic and easy to use checklists. Essentially Frontend with UI/UX work, with some Backend. [Including Javascript, React, Python, Django, Tensorflow, Keras, Linux](#)

Personal Projects

Nov 2025 - **"Do you Really Need IA ?"**, Public Website, for demonstration and experimentation purpose,
Now In progress / Alpha version.

The main purpose is the creation of a ironic and conceptual website, combining a subjective (and pedagogical) statement of the state of Generative AI and a *GenAi-based multi-agent reinforcement learning algorithm* as core. [Including Flask, Github Copilot, TailWindCSS, Docker, Fly.io](#)

Education

Sep 2018- **University Master in Computer Science and Engineering, with professional focus in In-**
Sep 2020 **telligent Systems**, *English, Faculty of Applied Sciences, Université de Liège, Liège, Belgium.*

Sep 2015- **University Bachelor in Civil Engineering, Option Informatics and Electronics**, *French and*
Sep 2018 *English, Faculty of applied science, Université de Liège, Liège, Belgium.*

Scholarship Achievements

Sep 2019- **Master's Thesis, "Comparison of probabilistic forecasting deep learning models in the**
Sep 2020 **context of renewable energy production"**. Theoretical analysis of the deep learning field in the context of the electrical grids and renewable energy constraints, with, as object of interest, electrical time-series to be forecast probabilistically. [Including GluonTS, Python, Keras, Numpy](#)

Sep 2018- **Master 1 Integrated Software Team Project**, "Innovative system for collecting flood-related
May 2019 observations". Project commissioned by the ArGENCo Uliège Departement . Full stack development of an application dedicated to collect complex flood-related data. [Including Angular, Javascript, Typescript, SQL, HTML](#)

Skills

Programming	PYTHON, JAVA, JAVASCRIPT, C++, C, SQL, HTML, SCHEME, MATLAB, OCTAVE, IDL, LUA
Libraries	TENSORFLOW, KERAS, MXNET, GLUONTS, OPENCV, NUMPY, SCIKIT-LEARN, LLVM, SAT4J, PROLOG, PYOMO, TKINTER
Software	LATEX, SPHINX, EXCEL, GIT, JIRA
Front-End	REACT, ANGULAR, VUE.JS, TAILWINDCSS, BOOTSTRAP
Back-End	FLASK, DJANGO, MYSQL, PHP, DOCKER
OS	LINUX, WINDOWS
Design	CANVAS, PLASMIC
Languages	FRENCH : NATIVE / ENGLISH : ADVANCED