SOPHIE OMS

Software engineer with a degree in computer science engineering, I am seeking a developer position where I can contribute to organizational goals and to the energy transition through my skills.

CONTACT INFO

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- oms.sophie@gmail.com
- https://linkedin.com/in/sophie-oms-3386ab1b7
- Driving license B

LANGUAGES

- French : native
- English : C1 (TOEFL 106/120)
- German : B2 (Goethe Zertifikat)
- Spanish : B1

SOFT SKILLS

- Creativity
- Team work & reporting results
- Customer service skills
- Problem solving
- Autonomy
- Thoroughness

HOBBIES

- Travelling
- Swimming
- Charity (Interact)

EXPERIENCE

2023 - 2024

Software engineer C#
Credit Agricole Corporate Investment Bank

One the one hand, daily development tasks in the IT transversal team, linked to data migration from the banking application Orchestrade.
On the other hand, development of features for a chatbot specialized in pricing services.

2021 - 2022

Internship industrial project
RSR & ENSMSE

Within the framework of a school-enterprise partnership, design and realization of a prototype for an on-board electro-acoustic sensor to measure the speed of a Rafale aircraft. I designed and manufactured the probe PCB, printed the 3D parts of the prototype and acted as project manager.

Jan 2021 - Feb 2021

Development of Machine Learning algorithms
MOSS SAS, joint-venture between Airbus & Thales

In support of a project in the aerospace field, development and testing of a Machine Learning algorithm to detect satellite manoeuvres. Development of functions and unit tests in Python with TensorFlow, and software quality measurement with SonarQube.

ACADEMIC BACKGROUND

2023

National Superior School of Mines, Saint-Etienne

Master's degree in Computer Science & Microelectronics
3-year course in Computer Science and Microelectronics, including machine learning, embedded systems, information systems, electronics, mathematics, physics, finite elements, project managment, and life sciences.

Option "Biomedical" at the University Carlos III (Madrid) : bioinformatics, computational biology, nanotechnology, biomedical imaging, bioengineering.

2020

Preparatory class for top engineering schools at Pasteur, Neuilly
Engineering, specialization in Physics & Chemistry

2018

Scientific Baccalaureat | Lycée Hoche, Versailles
Specialized in Physics & Chemistry, with Honors

HARD SKILLS

- Computer science : C#, Python (NumPy, Scikit-Learn, Pandas, TensorFlow), C, C++, SQL, HTML
- Embedded systems : Arduino, STM32 CubeIDE, FPGA (VHDL)
- Electronics : design, creation and utilization of a PCB
- Software : Matlab et Simulink, KiCad, Ltspice, Cisco Packet Tracer, Autodesk Inventor
- Desktop tools : Azure DeOps, Word, Excel, Powerpoint, Adobe, Git, Jira, Trello

PROJECTS

- Robot-puddle (follows a target detcted by sonar, includes an ACS)
- Robots that park automatically (broadcast communication between robots through a Zigbee module)
- Connected mirror (capacitive sensor)
- Programming the decryption of encrypted messages in AES (VHDL)
- Simulation of a wind farm (C) and solar panels (C++)