Ronan Sangouard

📞 +33 7 82 44 71 88

✉ ronan.sangouard@gmail.com

in ronan-sangouard-516766193

○ ronansgd.github.io/my-portfolio/

EDUCATION

2021 – 2023

Master of Science Informatics
Technical University of Munich, Germany
Specialized in **machine learning** and **robotics**.

2018 – 2022

Engineering Degree
École Polytechnique, France
Specialized in **applied mathematics**

2016 – 2018

Classe Préparatoire
Collège Stanislas, France
Specialized in **mathematics** and **physics**

WORK EXPERIENCE

April 2023 – October 2023

Research Assistant
Neuromorphic Computing Group, fortiss
Developed a **robotic demonstrator** for **spiking neural networks** and **event-based cameras**. Contributed to the development of **Intel's Lava** Python Library.

October 2022 – March 2023

Data Science Intern
Battery Cell Competence Center, BMW AG
Designed a deep learning-based program classifying **battery cells' faults**. The network was implemented in **TensorFlow** and trained on a GPU cluster. Implemented a data processing pipeline using **AWS Lambda**.

March 2021 – September 2022

Research Assistant
ReHyb – Chair of Information-Oriented Control, TU Munich
Designed a **bio-mechanical simulation** of a medical exoskeleton using **MuJoCo**.
A statistical **sensitivity analysis** was published in **Frontiers in Neurorobotics**.

June 2020 – September 2020

Web Development Intern
Polyconseil
Took part in the development of **Coviflex**, a B2B app easing flex-office, as full-stack developer. The tech stack was based on **React.js**, **Node.js** and **GraphQL**. Worked in a dynamic team based on **agile work style**.

SKILLS

Languages

French – *Mother tongue*, **English** – *Fluent*, **German** – *Professional*

Programming languages

Python – *Numpy, PyTorch, scikit-learn, TensorFlow*, **C++** – *CMake, MuJoCo*, **C#** – *Unity*, **JavaScript** – *Node.js, React*, **SQL** – *PostgreSQL*

Operating systems and development tools

Git, **Linux** – *Bash*, **AWS** – *Lambda, S3*, **Azure** – *Databricks*, **Docker** – *Kubernetes*, **Windows** – *PowerShell*