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# Martin ACCOU

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*French - 23 years old*

## AI/ML Engineer

## Work experience

**2024, 6 months** **ML engineer**, *D3S*, Grenoble, France.
- Implementation of a 3D Mesh classifier for automatic labeling of CAD designs, leveraging graph convolutional neural networks (GNN).
- Development of a software tool for easy labeling of triplets of CAD designs, used for the training of an unsupervised classification model based on triplet loss.
- Optimized the Open Cascade linker of the 3D analytics library, written in C.

**2023, 6 months** **Research data scientist**, *Reuniwatt*, Saint-Pierre, France.
- Post-process day-ahead irradiance forecasts: benchmark several promising models for time series (Kalman filter, GBM, RF, SVR, MLP, N-BEATS, LSTM).
- Introduction to the issues relative to production and Machine Learning Operations.
- Worked in an agile team, contributing to sprint planning and iterative development.

**2022, 6 months** **Digital simulation engineer**, *DGA Technique aéronautiques*, Balma, France.
- Study of parachutes during a cargo dropping (FEM and CFD).
- Learn new skills in digital simulation by working on LS-DYNA.

## Education

**2020-2024** **Master of Science**, *ISAE-SUPAERO (top 5 eng. school)*, Toulouse, France.
- $1^{st}$ and $2^{nd}$ year: general engineering courses in computer science, applied mathematics, thermodynamics, physics and mechanics.
- $3^{rd}$ year: Major in data science and data engineering. Minor in complex systems modeling and simulation: advanced statistics, HPC (OpenMP, MPI, CUDA).

**2022** **Semester Erasmus+**, *Politecnico di Milano (top 3 eng. school)*, Milan, Italy.
- Courses: Software development (Vue.js, Nuxt.js), reinforcement learning, space physics, aeroacoustics, multibody system dynamics.

**2018-2020** **Preparatory classes**, *Lycée Sainte-Geneviève (top 3 school)*, Versailles, France.
- MPSI/MP: two-year undergraduate intensive course in mathematics and physics.

## Skills

Programming  C, C++, Rust, Java, Python, HTML/CSS, JavaScript, Svelte, LaTeX.
Data tools  PyTorch, TensorFlow, Sklearn, W&B, SQL, Spark, Dask, Docker, Kubernetes.
Languages  French (native), English (C1, TOEFL iBT : 102/120), Spanish (B1), Italian (A2).

## Interests

Hobbies  Drums, travelling, open-source, linux, cybersecurity.
Sports  Trail-running (ultramarathon), cycling, soccer (10 years in club).
Associative  Creator of the RAID trails and race chief for 2 years. The RAID ISAE is an event including mountain bike, trail-running and canoe with more than 500 competitors.