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Martin ACCOU

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French - 24 years old

Full-Stack ML Engineer

Work experience

2024 - Present · **ML engineer**, *D3S*, Grenoble, France.
- Developed a 3D mesh classifier for automatic labeling of Computer-Aided Designs (CAD), leveraging a customized transformer-based architecture.
- Developed a 3D instance segmentation model tailored for CAD designs.
- Developed a software tool to facilitate the labeling of CAD designs triplets for training an unsupervised classification model using triplet loss.
- Optimized the Open Cascade linker of our 3D analytics library, written in C.

2023, 6 months · **Research data scientist**, *Reuniwatt*, Saint-Pierre, France.
- Post-processed day-ahead irradiance forecasts and benchmarked various time series models, including Kalman filter, GBM, RF, SVR, MLP, N-BEATS, and LSTM.
- Gained exposure to production challenges and Machine Learning Operations (MLOps).
- Worked in an agile team, contributing to sprint planning and iterative development.

2022, 6 months · **Digital simulation engineer**, *DGA Technique aéronautiques*, Balma, France.
- Studied parachute behavior during cargo dropping using FEM and CFD.
- Gained experience in digital simulation using LS-DYNA.

Education

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

2022 · **Erasmus+ Semester**, *Politecnico di Milano (top 3 eng. school)*, Milan, Italy.
- Relevant coursework: software development (Vue.js, Nuxt.js), reinforcement learning, space physics, aeroacoustics and 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 · Python, Go, C, Rust, Svelte.
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 · Designer of the RAID trails and race director for 2 years. The RAID ISAE is a multi-sport event featuring mountain biking, trail running, and canoeing, with over 500 competitors..