Engineer in Computer Science

Yann Cauchepin

Born the 1997-30-06,
26 years old
Nationality : French & Swiss

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🚗 Driving license, Car

🤝 Projects & Experience

Current - 09.2023	**Data Scientist, Process Optimization** Development of SmartYield3. Elaborate an optimization pipeline in partnership with Aledia and University of Clermont-Auvergne.	Pollen Metrology, *Moirans, France*
08.2023 - 09.2021	**Self-taught work, Learning** Deepening and discovering new skills. Coding mini-projects.	*Saint-Julien-en-Genevois, France*
08.2021 - 03.2021	**Reinforcement Learning for Combinatorial Optimization** Creating from scratch a realistic and adaptable environment with economic and sanitary evaluations for a multicriteria optimization. Static and dynamic digitalization of a society. Autonomous work.	University of Luxembourg, *Esch-sur-Alzette, Luxembourg*
02.2021 - 10.2020	**Deep Neural Network Optimization, Machine Learning** Forecasting of energy consumption in partnership with EDF R&D. Simulated annealing, Genetic algorithm, Convolutional layers.	Engineering school Polytech, *Lille, France*

🧰 Knowledge & Skills

Artificial Intelligence, Machine Learning
Unsupervised, Supervised and Reinforcement learning,
Convolution, Neural network.
Scikit-learn, *Keras*, *Tensorflow*.

Optimization
Metaheuristic, Graphs and combinatorics, *Lindo*,
Advanced algorithms for optimization and decision,

Programming, GUI, Systems
Data structure and Object-oriented programming.
Translators, *Python*, *C++*, *C*, *Java*, *Latex*,
Multithreading, *Git*, *Unix*, *wxWidgets*, *Atom*, *Spyder*.

High-performance computing, Distributed processing
Parallelization, Using GPUs, *MPI*.
High performance matrix computation methods, PageRank.

Data Science, Statistics
Data preprocessing, Management of missing data,
Time series analysis and forecasting, Markov process,
Classification, Clustering, Regression,
Exploratory, inferential and descriptive statistics,
R, *RMarkdown*, *RStudio*.

Big Data
Data fragmentation, Map-Reduce, *Spark*, *Databricks*.

Database
Relational, *SQL*, *XML*, *XQuery*.

Web
JavaScript, *CSS*, *HTML*, *PHP*.

Software engineering
UML, *Modelio*.

🎓 Education

2018 - 2021	**Engineer's degree in Statistics and Computer Science**	Engineering school Polytech, *Lille, France*
2017 - 2018	**Engineer's preparatory class**	Engineering school Polytech, *Grenoble, France*
2015 - 2017	**Common core year for health studies (PACES)**	University Joseph Fourrier, *Grenoble, France*

🔤 Languages

French	Native language
English	Degree B2/C1 **TOEIC** score : 945

🏷 Hobbies

Nutrition, Fitness, Weightlifting,
Personal development