

# Engineer in Computer Science

## Yann Cauchepin

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



🏠 67 Rue de la république,  
38430 Moirans  
☎ 06 11 63 87 64  
✉ cauchepin.yann@gmail.com  
🌐 www.linkedin.com/in/yanncauchepin  
🔄 https://github.com/yanncauchepin  
🚗 Driving license, Car

## 🔧 Projects & Experience

Current - 09.2023	<b>Data Scientist, Process Optimization</b> Boost production yield with a deep learning technology to identify root cause of advanced material processes issues. Optimization pipeline.	Pollen Metrology, Moirans, France
08.2021 - 03.2021	<b>Reinforcement Learning for Combinatorial Optimization</b> 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	<b>Deep Neural Network Optimization, Machine Learning</b> 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	<b>Engineer's degree in Statistics and Computer Science</b>	Engineering school Polytech, Lille, France
2017 - 2018	<b>Engineer's preparatory class</b>	Engineering school Polytech, Grenoble, France
2015 - 2017	<b>Common core year for health studies (PACES)</b>	University Joseph Fourier, Grenoble, France

## 🗣 Languages

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

## 🎯 Hobbies

Nutrition, Fitness, Weightlifting,  
Personal development