CLEMENT WANG

DATA SCIENTIST

I am a **Master of Engineering student** passionnate about mathematics and AI, seeking a 6-month internship in **Deep Learning**.

CONTACT

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TECH SKILLS

- **Data Science & AI**
  - Pytorch, Tensorflow, Keras, XGBoost, Scikit learn, Pandas, OpenCV
  - R, Matlab
- **Database**
  - SQL
- **Software**
  - Python, C#, OCaml
- **Tools**
  - Git
  - Docker
- **Web**
  - HTML - CSS
  - JavaScript
  - NodeJS
- **Creative**
  - Unity
  - Blender
- **Mathematics**
  - Statistics, probability, analysis
  - Algebra
  - Signal processing

LANGUAGE

- French, native language
- English, complete professional capacity (IELTS 7/9, C1)
- Chinese, B1
- Spanish, notions

OTHER EXPERIENCES

- **President of the AI student organization of CentraleSupélec**

As the President of the association, I had the opportunity to
- Manage a team of 30 members
- Organize events
- Organize practical works and training courses

- **Tutoring undergratuate students** in Mathematics and Computer Science
- **Participating in events to promote AI** in primary schools and secondary schools
- **2-month workman internship** at Amazon

HOBBIES

- Volleyball, basketball, running
- Nature
- Mangas

EXPERIENCES AND PROJECTS

Data Scientist & Software Engineer *Paris Digital Lab* *Feb 2022 - Ongoing*

Agile prototyping at the Paris Digital Lab, developing 3 minimum viable products in a 7-week constraint for real-world business, using scrum methodology.

- **Project #1: Confidential company**

Object detection and sementic segmentation algorithms such as YoloV3, Faster RCNN, U-net and OpenCV detection.

Techs: Python, Pytorch, OpenCV

Associative experiences *Automatants* *Sept 2020 - Jan 2022*

AI student organization of CentraleSupélec, promoting Machine Learning and Artificial Intelligence. Took part in my free time in several tech projects both as developer and project manager.

- **Advanced image classification - Intern competition**, *Nov 2021 - Dec 2021*

Implementing from scratch some of the latest architectures and techniques for imbalanced image classification: few shot learning, noisy student learning, mobilenetV2, shufflenetV2.

- **Neural Style Transfer - Perceptual loss**, *Sept 2021 - Oct 2021*

Implementing Neural Style Transfer from Gatys's paper optimizing a perceptual loss and using a generator network to transfer style on real time video.

- **Cat generation with GANs**, *Oct 2020 - Feb 2021*

Developing several architectures of GANs from scratch: DCGAN, Resnet GAN, ProGAN. Exporting it on a website with Tensorflow JS.

Techs: Python, Keras, Tensorflow, OpenCV, Numpy, JavaScript, HTML - CSS, Tensorflow JS

Student projects

CentraleSupélec allows students to choose their courses and projects. I have always chosen courses and projects related to new techs and Machine Learning.

- **Tabular data competition**, *Jan 2022*

1-month tabular data competition during a Machine Learning course, using Decision Trees, SVMs, regressions and XGBoost.

Techs: Python, Jupyter Notebook, XGBoost, Scikit learn, Pandas, Geopandas

- **French Robotic Cup**, *Nov 2020 - July 2021*

Building an autonomous robot able to move in an environment with obstacles and grab objects. I was in charge of the robot's vision.

Techs : Python, OpenCV, Arduino, Altium

- **Medical Data Analysis**, *Apr 2021*

Study on potential links between gene expressions with unsupervised learning on a database of 2000 patients in partnership with Pasteur Institute.

Techs : Python, R

- **3D game on Unity**, *Oct 2020*

Realizing a 3D horror game with a group of 5 students in 2 intense weeks of coding for a GameJam.

Techs: C#, Unity, Blender

Personal initiatives

I have always been striving to discover new techniques to solve problems.

- **Solving maze with genetic algorithm**, *Mar 2021*

Techs: Python, Numpy, Pygame

- **Project Euler**, *2018*

50+ algorithm problems solved on projecteuler.net/

Techs: Python, C

EDUCATION

Master of Engineering *CentraleSupélec - Université Paris Saclay* *Sept 2020 - Ongoing*

CentraleSupélec is one of the most prestigious French "Grandes Ecoles", based on a highly selective admission process.

Relevant courses: Algorithm & programming, parallel calculus, machine learning, statistics and learning, game theory, mathematics (convergence, integration, probability)

Digital Tech Year *CentraleSupélec* *Feb 2022 - Ongoing*

Admitted to the one-year digital technology specialization program, developing real-wold projects, plus one semester international work experience.

Preparatory courses *Lycée Henri IV* *Sept 2018 - Jul 2020*

Two years of intensive courses in advanced mathematics, physics and computer science preparing to the highly competitive entrance exams to the "Grandes Ecoles".

Relevant courses: Mathematics (algebra, analysis, probabilities), physics (mechanics, thermodynamics, electromagnetism, quantum mechanics) and computer science (Python, OCaml)