

# CLEMENT WANG

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[clementw168](#) — [in clem-wang](#) — [clem-wang](#)

Master of Engineering student with a strong interest in Machine learning.

## EDUCATION

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**Master of Engineering**, CentraleSupélec — University of Paris-Saclay Sept 2020 – Ongoing  
GPA: 3.84  
Relevant coursework: machine learning, statistics, parallel calculus, algorithm & complexity, signal processing.

**Preparatory Courses - MPSI/MP\***, Lycée Henri IV Sept 2018 – Jul 2020

## EXPERIENCE

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**Computer vision R&D Intern** Feb 2023 – Ongoing  
Stryker *Freiburg-im-Breisgau, Germany*

- Developed a framework of 3D position tracking of surgery instruments from an RGB camera with 2D key points detection using High-resolution network. Triangulation from frames on different timestamps.
- Detected centroids on NIR images with subpixel precision. Achieved 0.003 pixel norm with Mobilenet modules, decreasing the error by 15 times compared to previous methods.

**Co-Founder & MLOps Engineer** Dec 2022 – Ongoing  
Photogen *Remote — Paris, France*

- Implemented and pushed state-of-the-art Diffusion models to achieve photorealism by adapting Dreambooth.
- Set up cloud infrastructure on AWS and optimized costs with queue service, batch jobs, and autoscaling.
- Achieved group photo generation with several Dreambooth weights.

**Data scientist Intern** Aug 2022 – Jan 2023  
Polygon Technologies *Santa Monica, United States*

- Led research on how to diagnose mental diseases from videos of cognitive tests. Benchmarking performance of speech-to-text, voice activity, face landmarks, and human pose detection algorithms. Video segmentation from time series segmentation on extracted features.
- Accelerated pipelines by setting up AWS Batch service with GPU.

**Machine Learning Consultant** Feb 2022 – Jul 2023  
Paris Digital Lab — Digital Tech Year program *Paris, France*

- *French Ministry of Armed Forces*: Achieved 0.95 mAP @ IOU 0.5 with YOLOv3 on radio wave detection.
- *L'Oréal*: Retrieved lipstick on selfies. Reached 1% normalized MSE on optical properties with deep regression.
- *Oorion*: Automated annotation of classification and object detection datasets with few-shot algorithms.

## EXTRA-CURRICULAR ACTIVITIES

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**President of Automatants, AI student organization** Managed a team of 20 members, provided courses for 50+ students, organized events related to AI, gathered knowledge and wrote summaries of 100+ papers.

**Applied Deep Learning course** Maziar Raissi, University of Colorado Boulder.

**Machine Learning Specialization** Certification delivered by Stanford Online.

**Private tutor** 100+ hours of courses in Mathematics and computer science for undergraduate students.

## SKILLS

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<b>Frameworks</b>	Pytorch, Tensorflow, Pandas, NumPy, Sklearn, OpenCV, Plotly, Streamlit
<b>Technologies</b>	Bash, Linux, Docker, AWS, Jupyter, Git, Weights & Biases