

About me

I have always been interested in new technologies which naturally drew me to coding. I also got really interested in AI and its application fields, hence my will to reorient myself from Software Engineer to Agentic Engineer. I am pursuing formations on GenAI with skills.google (Gemini-cli, ADK) thanks to my current post at Airbus. I am also learning about GenAI with videos by Andrew Karpathy. I hope that in the next months or years I will be a competent LLMops / Agentic Engineer.

Professional experiences

04/2023-now **Extia Toulouse.**

Software / DevOps Engineer

15/04/2023 - now : Software and DevOps developer at AirbusGeo in a team that maintains and exploits the production of Earth imagery satellites. Developing a piece of software to help the team with their daily tasks, automating them using an Airbus internally developed software. Developing deployment pipelines using gitlab's CICD. Now using Gemini-cli to create multiple agents that helps me coding my software with tool use. Using GraphRAG (codegraph) to improve context window, rtk to reduce input tokens generated by commands.

12/2021-12/2023 **Capgemini Toulouse.**

Software and Machine Learning Engineer

06/12/2021 - 01/10/2022 : Software developer at Thales Alenia Space on Telecom satellites using JAVA.

01/10/2022 - 19/12/2022 : Machine Learning researcher on a Capgemini project over computer vision.

19/12/2022 - 01/12/2023 : Python software developer at SPIE over an Airbus DS telecom project.

2020 (6 months) **CEA Paris Saclay - Orme des Merisiers.**

Research Intern

Detection and deblending of Galaxy clusters using Deep Learning : Supervised by Dr. Pierre, I used deep convolutional neural network such as U-net to produce masks in order to detect and deblend galaxy clusters in X-ray images.

2019 (3 months) **LAMSADE - research laboratory of Paris Dauphine University.**

Research Intern

Supervised by Prof. Cazenave. Research on adapting ENAS - Efficient Neural Architecture Search - for the game of chess using Recurrent Neural Network.

2017 (3 months) **National Polytechnic Institute of Cambodia - Phnom Penh, Cambodia.**

Software Development Intern

Web development of a library system for the university, as well as PHP lessons taught to students.

Education

2020 **PaRis Artificial Intelligence Research Institute (PRAIRIE) Institute**, *PSL Research University*, **Master IASD, MSc in computer science** with honors.

Paris Dauphine, École Normale Supérieure, Mines ParisTech.

Artificial Intelligence and data science, machine learning, deep learning, reinforcement learning, computer vision, ethic, optimisation, databases.

2019 **MSc in Computer Science**, *Université Paris Dauphine, Paris, France, Ranked top 3.*

2018 **BSc in Computer Science**, *Université de Montpellier, Montpellier, France.*

2017 **BTEC (Higher National Diploma) in Computer Science**, *IUT Montpellier, Montpellier, France, Ranked top 7.*

Projects

Fall 2019 **Adversarial training of networks.**

Supervised by Prof. Negrevergne, Université Paris Dauphine. Reproduction of Fast Gradient Signed Method, Projected Gradient Descent adversarial attacks and training a robust neural network on the Cifar10 dataset.

Fall 2019 **One Shot Learning using Contrastive Loss, Triplet Loss, Siamese networks.**

Supervised by Prof. Negrevergne, Université Paris Dauphine. Reading and implementation of papers in order to reproduce their results.

Fall 2019 **Matrix Factorization for recommender systems.**

Supervised by Prof. Negrevergne, Université Paris Dauphine. Applying Sparse Gradient Descent on matrix factorization problem.

Spring 2019 **Polygonal reproduction of Images.**

Supervised by Prof. Airiau, Université Paris Dauphine. Development of an algorithm that reproduces an image only with polygons ([link](#))

Skills

Programming Python, Java, C++, C, SQL, Bash, Micro Service Architecture, JSON, YAML, DockerFile, XML

Software \LaTeX , Git, GitLab, Gitlab CICD, Visual Studio, VMWare, Jira, RabbitMQ, Vault, Harbor, Artifactory, Helm, Openshift, Kubenertes, Docker

AI \LaTeX , LLM, Gemini-cli, Claude-code, Température, Top-p, Top-k, Embeddings, Tokenization, GraphRag, Codegraph, RTK, Headroom

Libraries Pytorch, Tensorflow, Keras, Numpy, Scipy, Scikit-learn, Pandas, Jinja, Kafka, Flask, Gunicorn

Languages French (native), English (fluent), Japanese (beginner)