

Rémy SIAHAAN--GENSOLLEN

pro@remy-siahaan.com ♦ +33 6 63 60 79 63

More work / portfolio on

<https://remy-siahaan.com>

PROFESSIONAL EXPERIENCE

Holocyte

AI Research

01/2026 — Now

Co-founder

- Trained JePA and transformer models on single-cell data to predict biological behavior and drug toxicity.
- Experience estimating empirical scaling laws. Also worked with contrastive learning and flow-matching.

Interministerial Digital Directorate / Direction Interministérielle du Numérique (DINUM)

Data Scientist

06/2025 — 09/2025

Intern

- Worked on *Albert API*, an open-source gateway and toolkit for LLM inference by the French government.
- Fine-tuned models with reinforcement learning (GRPO, GDPO).
- Worked on strategies for improving service orchestration and inference speed.
- Designed a predictive model to estimate GPU requirements for large-scale inference stacks.

CREST, École Polytechnique (X)

Research Assistant

01/2025 — 08/2025

Fixed-term, part-time

- Studied socio-economic profiles of top French engineering students using econometrics and applied machine learning.

ACPR, Banque de France

Data Scientist

06/2024 — 09/2024

Intern

- Developed agentic RegTech solutions, evaluation protocols, and observability tools.

Fondation de France

Project Officer

Summers 2022 & 2023

Fixed-term

- Built automated data pipelines for teams funding 100+ NGOs, reducing processing times from months to hours.

Badblock Network

Full-stack Developer

04/2015 — 12/2016

Freelance

- Worked on a high-traffic game server network with several thousand concurrent players daily.
- Handled load balancing, message-oriented middleware for backend communication, NoSQL player-data store.

SKILLS & HOBBIES

- Python, Typescript, C, Java, SQL, Git
- Full-stack web development, infrastructure, networking, DevOps, beginner GPU kernel writting
- Native French, C1 English
- Piano (1st Prize at Concours Musical de France), composition, sound design, photography

EDUCATION

ENSAE, Institut Polytechnique de Paris

09/2023 — Now

Engineering program in statistics and economics

- Probability theory, Advanced Statistics, Stochastic Processes, Machine Learning, Econometrics, Micro- and Macroeconomics.

PROJECTS & AWARDS

- *Research project* Trained 3B parameters Sparse Autoencoders on open-weight LLMs; optimized the training pipeline with custom GPU kernels and systems-level improvements, achieving a 2× reduction in training time.
- *Research project* Contrastive fine-tuning with limited data for political bias prediction.
- *Research project* Reducing uncertainty in medical segmentation using ensemble methods.
- *CodinGame Certifications* Python, Java, "Coding Speed".
- *Consulting & Freelance Projects* Full-stack web development and AI projects for 10+ clients.

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|--|--------------------------|-----------------------------|---|
| ▷ QRT 2025 Data Challenge | 1 st Prize | ▷ Hi !Paris 2024 Hackathon | Scientific Approach winner |
| ▷ AMD GPU Kernel Optimization 2025 Hackathon | 3 rd Prize | ▷ E4C 2024 Hackathon | 2 nd Prize |
| ▷ Crédit Agricole 2025 Data Challenge | 3 ^e Prize | ▷ ACPR 2024 Hackathon | 1 st Prize |
| ▷ Qubic Madrid 2025 Hackathon | 3 ^e Prize | ▷ Ekimetrics 2024 Hackathon | 1 st Prize |
| ▷ H-Gen AI 2025 Hackathon | SCOR track winner | ▷ EY Data Challenge 2024 | 6 th worldwide, 2 nd France |
| ▷ Innov'her 2024 Hackathon | Jury Prize, Public Prize | | |

STUDENT ASSOCIATIONS & INITIATIVES

Uniate (AI Student Federation of France's top universities)

VP, Head of Events

- Organized multiple conferences, paper clubs on frontier research, hackathons (including HackEurope, largest hackathon in Europe) and other events with Anthropic, Google DeepMind, Meta, Perplexity, ARC Prize and Y Combinator. Led several hands-on data science and machine learning workshops.
- Co-founded the Uniate Fellowship for AI in Biology and the Uniate Computing Cluster project. Managed the association's server infrastructure.

Former roles

- Vice-President, Tuxae (ENSAE computing, ML/robotics association); Vice-President, ENSAE Student Union; Founder of *Spectra*, ENSAE sound, DJing & lighting association; Founder of *Vision*, ENSAE photography & filmmaking association.