Hélain Zimmermann

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EDUCATION

KTH Royal Institute of Technology   **August 2025 - June 2026**
Master's Programme, Machine Learning (TMAIM)   *Stockholm, Sweden*

ENSIMAG (National School of Computer Science and Applied Mathematics)   **September 2023 - June 2026**
Master's Degree in Engineering, Computer Science and Applied Mathematics (MMIS)   *Grenoble, France*

CPP (Polytechnic Preparatory Cycle)   **September 2021 - June 2023**
Preparatory class for competitive engineering class   *Valence, France*

RELEVANT COURSEWORK

- Algorithms & Data Structures
- Machine Learning & Deep Learning
- Networks & Security
- Database Management
- Operational Research
- Probability & Statistics
- Numerical Analysis
- Software Engineering

EXPERIENCE

Ailog (Custom AI Solutions)   **March 2025 – Present**
Co-Founder & CTO   *Hybrid*
- Co-founded the start-up Ailog, specializing in the development of custom AI solutions for businesses.
- Technical oversight of projects: development of AI agents, Retrieval-Augmented Generation (RAG) systems, and business process automation.
- Implementing AI training programs for client teams to strengthen their technological autonomy.

Nsigma Junior-Enterprise (Student Consulting Club)   **October 2023 - March 2025**
Technical Director   *Grenoble, France*
- Managed a team of 7 collaborators and led 10+ projects for clients.
- Managed a pool of 20+ projects for clients for a total of 100k+ Sales Revenues.
- **President:** Florent Gaujal : florent.gaujal@nsigma.fr

INRIA (National Institute for Research in Digital Science and Technology)   **June 2024 – September 2024**
Research Intern – Privacy-Preserving NLP   *Grenoble, France*
- Developed a novel method to mitigate sensitive data leakage in NLP models, balancing privacy and utility.
- Benchmarked privacy-preserving training techniques NLP models, reducing memorization of sensitive entities.
- Co-authored the paper "Towards the Anonymization of the Language Modeling" based on the developed technique, published on arXiv. **Link**
- **Supervisor:** Dr. Antoine Boutet : antoine.boutet@inria.fr

IE-Concept (Electronic and software development office)   **May 2023 – June 2023**
Technician Intern – IoT and Embedded Systems   *Valence, France*
- Designed and implemented a home automation system to control office air conditioning via infrared signals, concentring 3d printers, camera and different sensors/actuators control into one place.
- Developed and programmed ESP32 microcontrollers for IoT applications, integrating various sensors and actuators. Protyping 3d printed custom enclosures, optimizing functionality.
- Created a user-friendly interface using Home Assistant for seamless system control and automation.
- **Supervisor:** Jeremy Vinet : jeremy.vinet@ie-concept.fr

TECHNICAL SKILLS

Programming skills: Java, Python, C/C++, SQL, R, vhdl, riscV-32
Technologies / Frameworks: Unix, Pytorch / TensorFlow, Flask, Streamlit, NLP / LLMS, Langchain
Languages: French (Native), English (C1, TOEIC 960/990), German (B1)
Interest: Skiing, Weight Lifting, Running, Guitar, Fencing

LEADERSHIP / EXTRACURRICULAR

Finance Association, ENSIMAG   **February 2024 - April 2025**
Communication Manager   *Grenoble, France*
- Promote finance careers by organizing networking events, workshops, hackathon.
- Manage content and marketing strategies to enhance student engagement.
- Connect students with industry professionals and internship opportunities.

Student Union   **March 2024 - April 2025**
Member   *Grenoble, France*
- Organised multiple events, for more than 1000 students in my school. Promote cohesion, helping new student to integrate.
- Coordinated with sponsors and external organizations to secure partnerships and funding of our events.