



[tom.effernelli@gmail.com](mailto:tom.effernelli@gmail.com)

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French & Swiss  
nationality

## Education

- **Grande Ecole Engineering Diploma – Télécom Paris | Polytechnic Institute of Paris** 2024 – 2027 | Paris, France  
One of France's most prestigious general engineering schools in the *Grandes Ecoles* system. Equivalent to a top-tier university specialized in engineering studies. Specialized in Machine Learning and Cybersecurity.
- **B.Sc. in Mathematics – Sorbonne Université** 2025 – 2026 | Paris, France  
Prestigious French university degree covering core areas of pure and applied mathematics, including analysis, algebra, probability, topology and statistics.
- **Preparatory Classes Mathematics, Physics and Computer Sciences – Lycée du Parc** 2022 – 2024 | Lyon, France  
Post-secondary top-tier preparation program for the competitive entrance examinations to French Engineering Schools in the *Grandes Ecoles* system.
- **French Baccalaureate - Highest honors with jury congratulations** 2022 | Aix-en-Provence, France  
French Baccalaureate obtained with the highest possible distinction.

## Professional experience

- **Internship in Telecommunications – Alcatel Submarine Networks** 07/2025 - 08/2025  
Global leader in submarine telecommunications cable design. Computer-aided modeling, prototyping, numerical simulations, and optical data analysis applied to quality control.
- **Community manager, student integration – Télécom Paris Students Union Board** 04/2025 - 04/2026 | Member  
Designed promotional materials, managed social media for student life and school events, and organized major Student Union activities such as new student integration and campaign events.
- **Internship in Theoretical Physics – Eurofins EAG Laboratories** 04/2022 – 05/2022  
Company specialized in physico-chemical interface analysis. Analysis and exploitation of experimental data, creation of [digital content to promote a new piece of equipment](#) ([youtu.be/iQLEkX8hljw](https://youtu.be/iQLEkX8hljw)).

## Achievements

- **Transformer-based Language Model (from scratch)**  
Implemented a LLM from scratch based on the "Attention Is All You Need" paper, using the Transformer architecture and multi-head self-attention mechanisms in PyTorch. Available online: [tom-effernelli.vercelapp.com/project-page-dev-small-llm](https://tom-effernelli.vercelapp.com/project-page-dev-small-llm)
- **Personal Portfolio Website**  
Developed a personal portfolio showcasing software and graphic design projects. Using Next.js, React, Tailwind CSS, with a focus on responsive design and accessibility. Available online: [tom-effernelli.vercelapp](https://tom-effernelli.vercelapp.com)
- **Hackathons & GameJams** Participant and organizer
  - Coding competitions participation: Top2 Sorbonne University GameJam, Top5 Ecole 42 hackathon...
  - Organizing the [Hack the Fork](#) (hackthefork.com) hackathon on sustainable food: sponsorship, mentor/participant recruitment, communication.See all participations on [my portfolio](#).

## Skills

**Technical skills:** Programming languages: C, C# (+ Unity), Python, Javascript, HTML, CSS  
Frameworks and Libraries: Next.js, React, Tailwind CSS  
Methods and Tools: Git, Responsive design

**Social:** Community management (social media), event planning, project management

**Languages:** French (native), English (C1), German (B1), Spanish (A1)

**Arts:** Piano (for 9 years in conservatory classes), DJing, Multimedia content creation using Adobe Suite (Photoshop, After Effects, Premiere Pro), Theater (played for 4 years)