Tom EFFERNELLI

Contact

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Skills

Languages:
C, C# (+ Unity), Python, Javascript, HTML, CSS

Frameworks:
Next.js, React, Tailwind CSS

Tools:
Git, Responsive design

Social:
Community management, event planification, project management

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

Arts:
Piano (9 yrs conservatory), DJing, Adobe Suite (Photoshop, After Effects, Premiere Pro), Theater (4 yrs)

Education

Telecom Paris, IP Paris | *Grande Ecole Engineering Diploma* **2024 − 2027**
- 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 Data Science & AI and Cybersecurity: Statistical Learning, Deep Learning, Natural Language Processing (NLP), and Optimization; Network Security, Cryptography, Cyberattacks, PKI, and Vulnerability Auditing.

Sorbonne Université | *B.Sc. in Mathematics* **2025 − 2026**
- Prestigious French university degree covering core areas of pure and applied mathematics, including analysis, algebra, probability, topology and statistics.
- Pursuing this degree alongside my engineering studies.

Lycée du Parc | *Preparatory Classes in Mathematics* **2022 − 2024**
- Post-secondary top-tier mathematics, physics and CS preparation program for the competitive entrance examinations to French Grandes Ecoles Engineering Schools.

French Baccalaureate | *Highest Honors with Jury Congratulations* **2022**

Achievements

Stochastic Texture Generator **12/2025**
- Procedural texture synthesis solving tiling on large surfaces via stochastic processes and blending. Transforms source textures into seamless materials without perceptible repetitive patterns. Available online: tom-effernelli.vercel.app/project-page-dev-stochastic-texture

LLM Transformer (from scratch) **11/2025**
- 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.vercel.app/project-page-dev-small-llm

Personal Portfolio Website **09/2025**
- 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.vercel.app

Hackathons & GameJams
- 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.

Professional Experience

Télécom Paris Students Union | *Com. Manager, Integration* **04/25 − 04/26**
- Designed promotional materials, managed social media for student life and school.
- Organized major Student Union events like new student integration and campaigns.

Alcatel Submarine Networks | *Telecommunications Internship* **07/25 − 08/25**
- Global leader in submarine telecommunications cable design.
- Computer-aided modeling, prototyping, numerical simulations, optical data analysis.

Eurofins EAG Laboratories | *Theoretical Physics Internship* **04/22 − 05/22**
- 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).