

## ✧ Education and Qualifications

- 2020–2024 **Master's Degree (up to M1) in Computer Science, École Normale Supérieure of Rennes, Rennes, France.**  
Ranked 80th at the 2020 ENS Rennes' computer science entrance exam. Mainly taking classes with practical programming projects.
- 2018–2020 **MPSI and MP\*, Lycée Saint-Louis, Paris, France.**  
Higher Maths and Physics, Computer Science.
- 2018 **Scientific Baccalauréat, Lycée Thérèse d'Avila, Lille, France.**  
Highest honors.

## ✧ Tools &amp; Programming Languages

- Comfortable using* **Rust, Cargo, C (up to C18), C++ (up to C++17), Python**  
**OpenGL, GLSL, Wgpu, WGSL**  
**VSCode, Git, GitHub**
- Already worked with* **Unity, C#, HLSL, Vulkan, Cmake, Java, OCaml, Bash, Assembly (x86\_64)**

## ✧ Personal Experience

Started programming as a hobby in 2013 and spent a lot of time on personal hobby projects ever since. A portfolio of my most relevant and presentable projects is available at [anima-libera.github.io](https://anima-libera.github.io). These passion projects are about games, tools, programming languages, compilers, graphics, etc.

## ✧ Academic Experience

- 2022–2023 **Internship, INRIA (National Institute for Research in Digital Science and Technology), Lille, France.**  
Retro-engineering and covert-channel attack on the branch predictor unit of a modern Intel CPU. Over 6 months.
- 2022 **Computer Graphics Internship, Multi Fragment Rendering, Athens University of Economics and Business, Greece.**  
Learning and implementation of some multi-fragment rendering techniques in C++/OpenGL. Over 3 months.
- 2021–2022 **Research Project, String Art, IRISA (Research and Innovation Laboratory in Digital Science and Technology), University of South Brittany, France.**  
Study, implementation and optimization on string art, a non-photorealistic rendering technique. Over 1 year.
- 2021 **Security Internship, Study of the vulnerabilities emerging from the linking of hardened C/C++ code with Rust code, INRIA, team CELTIQUE, France.**  
Reading of papers, problem analysis and presentation, Rust programming. Over 2 months.
- 2020 **Security Project, Exploiting buffer overflows, heap corruption, return-oriented programming, sandbox escaping, ENS Rennes, France.**  
Reverse-engineering, assembly, attack and defense, practice and paper reading. In groups of 2, over 5 months.
- 2018 **Participating to the "TFJM<sup>2</sup>" (Tournois Français des Jeunes Mathématiciens et Mathématiciennes) Maths Tournament, Lille, France.**  
In teams, ranked 2<sup>nd</sup> in Lille's pool. Maths and programming research problems.

## ✧ Hobbies &amp; Miscellaneous

Video games, manga, anime  
Programming for personal projects (a lot)  
Reading sci-fi/fantasy novels  
Driver's license

## ✧ Languages

French	<i>Mother Tongue</i>	
English	<i>Fluent</i>	Spoken and written Technical vocabulary TOEIC 2022: 955/990 (C1 level)

Birth date: 24/07/2001

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Portfolio: <https://anima-libera.github.io> ~ GitHub: <https://github.com/anima-libera>