



STEVAN Antoine

Post-graduate engineer

-  March 29, 1999
-  20 rue Marie Louise Dubreil Jacobin, 31400, Toulouse, France
-  +33 7 64 42 97 00
-  [amtoine.github.io](https://github.com/amtoine)
-  stevan.antoine@gmail.com
-  [86CFF1AB](#)








Social Network

-  [Me on LinkedIn](#)
-  [Me as a software engineer](#)

Languages

-  French - native speaker
-  English - fluent
-  German - very good
-  Japanese - beginner
-  LSF - beginner

Hard Skills

-  Linux, Arch, Windows, VMs
-  Rust, Nushell, Python, LaTeX, C, Assembly, Arduino, Oberon, C++, Java, Processing, oCamL, Racket,
-  MySQL, PostgreSQL, Redis
-  JAX, PyTorch, NumPy, Pandas, SciPy, Scikit-Learn
-  Nushell, Git, SSH, Docker, bash, fish, sh,
-  Jupyter, Google Colab, Google Cloud, Cluster Computing, Spread-Sheet, Gimp, Blender
-  markdown, HTML, CSS, org, JavaScript,

Soft Skills

- Dedicated
- Intrinsically curious
- Calm under pressure
- Versatile
- Fast-learner
- Spontaneous
- Honest
- Open-minded

About me & Objectives

Interested in language compilation, safe and structured languages. Interested in distributed computation, cryptographic techniques, zero-knowledge proofs and the Rust programming language as well, I am applying for a thesis with the Dragoon project.

Working Experience

jan. 2023 – dec. 2026 **fixed-term contract (4 years)** ISAE-Supaero, Toulouse, France
Develop and compare ZK protocols applied to sharing and distributing data on peer-to-peer networks. **Distributed storage**
Zero-knowledge proofs **Rust**

sept. 2022 – dec. 2022 **internship (4 months)** ISAE-Supaero, Toulouse, France
Develop a native compiler for Oberon with the LLVM backend. **Compilation** **Oberon programming language**

april 2022 – sept. 2022 **3rd year internship (end of study at Supaero) (5 months)** InstaDeep, Paris
Advance research and help firms with Multi-Objective RL (MORL).

- Explore and benchmark existing MORL algorithms.
- Propose and implement new techniques using RL research.
- Give concrete solutions to be deployed as production tools.

Multi-Objective RL **Team work** **Code and ideas coordination**

july 2021 – august 2021 **2nd year internship (7 weeks)** SuReLI, ISAE-supaero
Continuation of the previous research topic of my PIR project:

- Further in the disentanglement model & learning technique.

Image processing **Imitation RL** **Autonomy**

january 2021 – july 2021 **Innovation & Research Project (PIR) (5 months)** ISAE-Supaero
First research experience leading to a paper with academic level. Title: *Applying Disentanglement for Domain Adaptation to RL*.

- Key questions and techniques of disentanglement.
- Short paper submitted to the ISAE-Supaero.

Image processing **Disentanglement RL** **Communication**

STEVAN Antoine

Post-graduate engineer

Memberships



Core maintainer of [Nushell](#),
"A new type of shell"
(2023/03 - now)



[InstaDeep](#), "decision making
AI for the enterprise"
(2022/04 - 2022/08)



The [SuReLI lab](#)
(2020 - 2021)



VP of the ISAE-Supaero
[Computer Science Club](#)
(2020 - 2023)



The [InnovSpace](#) of Supaero
(2019 - 2023)

Past experiences

october 2020 – may 2021 **Part-time operator (8 months)** ISAE-Supaero, InnovSpace

- Managed ISAE-Supaero's InnovSpace during my free-time.
- Watched the place, the tools and helped users.

Manual tools

Management

Autonomy

sept. 2018 – june 2019 **Research school project (TIPE) (9 months / part-time)** Georges Clemenceau, Nantes, France
First research experience.

- Optimization of the urban space through simulation.
- Learning-based algorithm to facilitate pedestrian traffic.

Problem statement

EA

Communication

Education

2019 – 2022 **ISAE-Supaero** Toulouse, France
The *Aeronautic & Space Superior Institute* in France.
Currently attending the *Data Science & Decision Making (SDD)* class:

- geometrical, probabilistic and connectionist approaches
- committee-based ML, Deep Learning and RL.
- stochastic optimization and evolution.

2017 – 2019 **Preparatory Class [MPSI, MP, computer science]** Georges Clemenceau High School, Nantes
French class to prepare for highly selective graduate schools.

2014 – 2017 **High school [engineering sciences and computer science]** Léonce Vieljeux High School, France
Good results in high schools opens the way to preparatory classes after graduation, which are selective classes.

Diplomas

2022 **ISAE Supaero**
Engineer graduate diploma

2020 **Bachelor's degree**
Bachelor science diploma

2019 **TOEFL PBT**
607/677 (B2/C1)

2019 **Graduate schools entrance examination**
Successful examination for the highly selective Mines school bank.

2017 **Baccalauréat (bac)**
Mention: very good

July 12, 2023

STEVAN Antoine

Extra-Curricular Activities

Arch Building software and configuration for my ArchLinux system.

Books I follow the [IPFS](#), [Rust](#), [Nushell](#) and the [Writing A Compiler / Interpreter In Go](#) books and the [Last Algorithms Course You'll Need](#).

Web I maintain my personal website and the Oberon compiler portal.

Projects Web and linux dev in the ISCSC, personal free projects.

Paint Assembly and painting of miniatures.

Epoxy An artistic pane out of wood and resin to decorate my place.

Computer 6502 μ -computer, on breadboard, with custom games in assembly.

8-bit CPU A CPU out of logic gates with custom assembly.

July 12, 2023

STEVAN Antoine