

Rémi Caulier

## Software Engineer

Graduate of a five-year master's degree in engineering at INSA Hauts de France. Specializing in Computer Science and Cybersecurity. I want to build innovative solutions and take part in complex problems

### Education

#### INSA Engineering school

From September 2020 to July 2025 [INSA Hauts de France](#) Valenciennes, France  
After two years of intensive undergraduate level courses in Mathematics, Physics and Industrial science, I'm currently following engineering courses specialized in Computer Science and Cybersecurity.

- Data structures and algorithms
- Computer architecture

#### High school diploma

July 2020 [Antoine Watteau high school](#) Valenciennes, France  
Graduate from high school diploma specialized in Mathematics, with high distinction

### Professional Experiences

#### Software Engineer Internship

From March 2025 to September 2025 [TechGuys](#) Montreal, QC, Canada

- *Layered Architecture, Security By Design*
- *CI/CD pipelines*
- *RBAC implementation and security testing*

#### Software Development

From July 2024 to August 2024 [Elico - BLONDEL Group](#) Dijon, France

- *Revamping Front and Back end of an existing Symfony application integrating React and new features*

#### Software Developer Internship

From September 2023 to January 2024 [Elico - BLONDEL Group](#) Dijon, France

- *Full Stack Web app development with Symfony. Golang automation scripts*

#### Working Internship

From July 2021 to August 2021 [Pandrol - DELACHAUX Group](#) Raismes, France

- *Native Android application development*

### Additional Experiences

#### Board member of [./insa.sh](#)

Since September 2022 [./insa.sh](#) INSA Hauts-de-France  
*Co-founder and treasurer of computer science club ./insa.sh where we build various computing projects both software and hardware*

#### Cyber INSA CTF

April 2024 [INSA CVL](#) Bourges, France  
*Team-based capture the flag, cyber-security competition between INSA schools. 3rd place in qualifications, 6th in final*

#### Cod'INSA Competition

From April 2021 to April 2023 [Cod'INSA](#) INSA Rennes, Toulouse and Lyon  
*Finalist in the 2021, 2022 and 2023 editions of the Cod'INSA Algorithmic competition*

#### Root-Me Challenges

Since October 2020 [Root-Me](#) [root-me.org](#)  
*Solving challenges on the Root-Me platform in various areas of cybersecurity such as networking, cryptanalysis, forensics, steganography and web applications*

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### Academic Projects

#### Quantum proof video streaming client and server

Development of a video upload and streaming platform in Golang with ffmpeg. Communications had to be secured using a post-quantum encryption algorithm.

#### Secure messaging service

Development of a Java-based messaging system integrating cryptographic mechanisms to ensure secure communication

#### Generative AI Chatbot

Context aware generative AI chatbot and it's Flutter mobile application

### Skills

#### Programming Languages

Development in many languages involving shell-scripting, C, Golang, Java, Python, web development with PHP and React

#### Tools and Softwares

Microsoft Office Pack, Git, Jira, Typst

#### Linux, Windows

Experience with several Linux distributions. Daily use of Windows and Debian.

#### Databases

SQL and NoSQL databases like MySQL, Oracle, MongoDB and DynamoDB

#### Cloud

GCP and AWS

### Languages

#### French

Native language

#### English

› TOEIC : 920/990

### Qualities

Responsible, serious, rigorous, organized  
Autonomous, voluntary  
Available, sense of contact and service

### Interests

#### Cultural activities

Reading, Puzzles, Cards and Board Games

#### Civic activities

Voluntary participation in the operation: "Let's clean up our village together".  
<https://www.hautsdefrance-propres.fr/>

#### Sporting activities

Swimming, Hiking and Cycling