

Nicolas BEAUDOUIN

🏠 France

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🚗 Driving License



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🌐 Websites:

<https://nicolasbeaudouin.com>

<https://github.com/Nynko>

Activities/Interests

◦ Sports :

Running and *rock climbing* outdoor or indoor

◦ Hobbies :

Experienced photographer and cinematographer, FPV drones

◦ Other interests:

Blockchain / DLTs (Distributed Ledger Technologies), Cryptography and Zero-knowledge

◦ Hackathons:

Won a Stellar prize in the Encode London 2024 Hackathon (*for a crowdfunding platform on Stellar*)

Languages

◦ Native French

◦ English (Fluent) (C1) TOEIC - 945 pts

◦ Spanish (A2)

◦ Indonesian (A1)

Last Update: January, 2025.

Professional Experience

March 2024 – December 2024 **Freelance and Personal Project**

- Development of a cryptocurrency wallet with user-friendly functionalities (time-based social recovery, multisignatures) and compliance, improving user experience to hold and use cryptocurrencies
- Associated smart-contracts on Solana and a start on Stellar
- Mobile application in React-Native
- Rust backends (with AnonCreds management, multisignatures, API gateway)

March 2023 – February 2024 **Software Engineer (Intern then Freelance) – Incomlend, Singapore**

- I researched and developed a data access layer solution to transit from Salesforce to a database while ensuring operational continuity
- I added functionalities and tools both on the frontend (ReactJS - TS) and the backend (Python with Mypy) leading to improved user and developer experience
- I introduced unit testing in the company on the tools I have worked on
- I reimplemented a NodeJS backend into a Python backend resulting in a >50% reduction in server response time on session starts

June – August 2022 **Second Year Internship at INRIA - PESTO team**

- I fixed issues and added functionalities in Haskell on a security protocol verification tool named Tamarin-prover

Projects

Writing a Compiler in Java for a simplified C language on ARM64 (compatible with linux and MacOS Silicon) during school

Solidity project: I lead a team of 4 people and we developed a message chat, in React, storing data on IPFS with a simple merkle-tree based 'proof of storage'

System project: Created a simple shell in C (group of 2)

Education

2020 – 2023 **Master TELECOM Nancy** Computer Engineering Degree specialized in cybersecurity. Equivalent *M.Sc. in Computer Science*

2018 – 2020 **French CPGE - in Maths and Physics** (Preparation for highly competitive national exams for engineering school)

Skills

Backend technologies: Rust, Python (Typing, Flask), Java, Go, Haskell, ARM Assembly, C, C++, NodeJs, Latex, Git, **Blockchain**: Solana, Soroban, Solidity, **Zero-Knowledge**: Noir, Circom, **Database**: SQL, PostgreSQL

Frontend technologies: React, React Native, HTML/CSS, Javascript/Typescript

Management, Teamwork and team Management (Completed Project Management MOOC Centrale Lille)

Bootcamps (Encode Club): Solidity (May-June 2024), Zero-Knowledge (September 2024) and Advanced Solidity (October-November 2024)