



# ALESSANDRO SIRONI

COMPUTER SCIENCE ENGINEER

## CONTACT

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## PROFILE

My academic journey has been deeply rooted in **cybersecurity**, with a strong complementary focus on **machine learning**, **neural networks**, and **software development**. Driven by a passion for technology, I have engaged in numerous projects throughout my courses, developing practical skills and a comprehensive understanding of cutting-edge technologies.

## SKILLS

- C, Java, Python, Flutter, NodeJS, ExpressJS
- HTML, CSS, Javascript, Typescript, Vue, Nuxt
- MySQL, MongoDB, Firebase, Supabase
- Cybersecurity: GDB, Ghidra, pwn Tools
- ML and NN Models, Keras

## LANGUAGES

- Italian (Native Language)
- English (Fluent)
- Spanish (Basic)

## EDUCATION

- **Master's in Computer Science & Engineering** 2023 - 2025  
Politecnico di Milano
- **Bachelors's in Computer Science & Engineering** 2019 - 2023  
Politecnico di Milano - 89/110

## PORTFOLIO & EXPERIENCE

- **EcoMate** 2024  
LLMs - ChatGPT - HomeAssistant
  - Development of a chat-based interface to automatically generate smart home routines.
  - Integration with HomeAssistant.
  - Paper - *Generating HomeAssistant Automations Using an LLM-based Chatbot*
- **Offensive & Defensive Cybersecurity** 2024  
Cybersecurity - Python - Ghidra - GDB
  - CTFs challenges regarding various vulnerability and security issues.
  - Shellcode, Reverse, ROP, Mitigations attack, Heap, Race, Serialization, Symbolic, XSS, packers.
- **Artificial Neural Network & Deep Learning** 2024  
Neural Network - Python - Keras
  - Image classification model to identify if a leaf is healthy or unhealthy, using a Convolutional Neural Network.
  - Time series forecasting model using a Recurrent Neural Network.
- **MacroTracker** 2023  
Mobile App Development - Flutter
  - Coding of a mobile application for smartphone and tablet to track macronutrients of the user's diet by the scan of the product's barcode.
  - Use of Flutter, Firebase Authentication & database

## LINKS AND OTHER PROJECTS

- Personal website: [www.sironi.dev](http://www.sironi.dev)
- GitHub: [www.github.com/AlessandroSironi](https://www.github.com/AlessandroSironi)