



Ilyes SMAOUI

Software Engineer

📍 Paris (willing to relocate)

Academic background

2021 - 2025 - Sup Galilée - Paris

Computer Science Engineering degree

2023 - 2024 - University of Milan - Milan

Academic exchange semester

2018 - 2021 - Esprit prépa/independent candidacy - Tunis

French "prépa", with an MP (Maths and Physics) major

Skills

Main coding languages

C, C++, Python, HTML, CSS, JavaScript/TypeScript, Bash, Java, C#

Systems and tools

Linux, Bash, Git/GitHub/Gitlab, Docker, Jira, CMake

Networking/security

, nmap, Low-level attacks (ROP, buffer injection, ...), Risk Analysis and Management (ISO 27000/31000), Cryptography, Telecom protocols and systems, OSI Protocols, TIPC, Cisco config

Artificial Intelligence/Machine Learning

NN (MLPs, RBFNs, SOMs, etc.), Evolutionary algorithms, Fuzzy systems, AI for video games, Monte Carlo methods, Data Science

Project management

Agile, Scrum, Risk Analysis and Management (ISO 27000/31000), UML, End-to-end project delivery

Miscellaneous

Applied mathematics and open problems reasoning, Assembly, OCaml

Spoken languages (ordered by CEFR level)

French (C2/native), English (C1/C2), Italian (B2), Arabic (B1), Spanish (B1)

Extracurricular experience

Summers 2017, 2019 - Tunis

GOMYCODE Summer Academy - Introduction to Android development (2017) and Data Science (2019)

2012-2018 - Tunis/Brussels

Member of the robotics club of AJST Tunis

2012, 2013 and 2014 summer camps : robotics and CS

2015 : exhibitor at Expo-Sciences International, in Brussels

Summers 2011, 2018 - Paris

CIJM (Championnat International des Jeux Mathématiques) international finals : resolution of open math problems

Qualities

Scientific curiosity, Adaptability, Self-taught, Logical/mathematical rigor and analytical mind

Experience and projects

Trading Core & Models @ Capital Fund Management

Internship, February - July 2025

- Design and implementation of communication protocols for trading automats
- Development of high performance feed handlers for trading systems
- Implementation of new features for existing feed handlers
- Benchmarking and improvement of performances
- Catch-up meetings, specification of needs

Tools/technologies : C++, git

Security Auditor @ P1 Security

Internship, May - September 2023

- Internal research on 5G antenna : radio testing, attachment process, automated parameter testing, program analysis
- Auditing missions : setup of work environment, vulnerability analyses/scans of systems and networks
- Regular team meetings with other members

Tools/technologies : Bash/Linux, Docker, TIPC, nmap, etc.

Project Management @ Sup Galilée

School project, September 2023 - May 2024

- Assisting linguistic research on textual data
- Website for interactive visualization of textual data
- Regular sync up meetings w/ team members and client

Tools/technologies : Flask, Angular, Firebase, Trello

AI for Video Games @ University of Milan

School project, January 2024

- Design and implementation of a 2D-movement algorithm
- Implementation of algorithm in a game engine

Tools/technologies : C#, Unity

Various personal projects (c.f. personal GitHub)

2023 - 2025

- Implementation of various encryption algorithms (TEA, DES, etc.)
- Multi-layer multi-purpose network simulating modules [ongoing]
- Solving algorithmic/programming puzzles (Advent of Code)
- Capture The Flag on telco-related .pcap files

Various school projects @ Sup Galilée

2021 - 2025

- Web Development : sports results platform
- Network configuration of Cisco routers
- Simple reinforced learning algorithms, etc.

General maintenance @ Clinique Pasteur (private hospital)

Internship, December 2022 and April 2023

- First year internship : introduction to the working world

Contact info

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Socials

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github.com/ilyes-smaoui