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
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 Intern - Capital Fund Management
February - July 2025
- Design and implementation of communication protocols for trading automatons
- 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 Intern - P1 Security
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 - 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

AI for Video Games - 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]
- Capture The Flag on telco-related .pcap files
- Solving algorithmic/programming puzzles (Advent of Code)

Various school projects
2021 - 2025
- Web Development : sports results platform
- Network configuration using Cisco router;
- Implementation of encryption/decryption algorithms
- Simple reinforced learning algorithms, etc.

Observing Intern - Clinique Pasteur (private hospital)
December 2022 and April 2023
- First year internship : introduction to the working world
- Observation and assistance to the material maintenance team

Contact info

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Socials

in **linkedin.com/in/ilyes-smaoui/**
○ **github.com/ilyes-smaouii**