

# HAMMOUCHE Hocine

Data and Software Engineer  
Ingénieur Logiciel et Données

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My ForgeJo Instance ([git.hocine.me](https://git.hocine.me))

Any fool can write code that a computer can understand.  
Good programmers write code that humans can understand.  
**Martin Fowler**

## Professional Experience

2023 - 2025

**Data and Software Engineer (Cyber Threat Intelligence)**, *Gatewatcher*, Puteaux  
Development and maintenance of the LastInfoSec (LIS) platform, dedicated to Cyber Threat Intelligence (CTI). My responsibilities included collecting, processing, analyzing, and enriching data from various sources to feed the platform with relevant and real-time information.  
Throughout this experience, I was able to confront my theoretical knowledge with real cases, which allowed me to develop my skills in software and data engineering, as well as improve my cross-functional skills such as communication, teamwork, and time management.

### Tech Stack

Python, FastAPI, Selenium, pandas, Docker, Kubernetes, Helm, Celery, RabbitMQ, Redis, MySQL, Cassandra, Gitlab CI, ...

### Skills

Data analysis and engineering, reverse engineering, microservices development, container orchestration, database management

## Education

2023 - 2025

**Master informatique parcours Génie Informatique en Alternance (GENIAL)**, *Université Paris Cité*, Paris 13th arrondissement

The aim of the program is to train computer engineers who are proficient in both the fundamental concepts of computer science and the modern technologies used in businesses.

- Advanced Algorithms
- Distributed Algorithms
- Mobile Programming (Android)
- Embedded Systems (C, ASM, ...)
- Advanced Software Engineering

- Distributed Programming
- High Performance Computing
- Advanced Databases (Conceptual, Logical and Physical Modeling, Indexing, Optimization, ...)

2020 - 2023

**Licence informatique générale**, *Université Paris Cité (formerly Université Paris-Diderot)*, Paris 13th arrondissement

- Languages learned: C, C++, Java, OCaml, Python, SQL
- Propositional and first-order logic
- Lexical and syntactic analysis (grammar, parser, ...)
- Algorithms (complexity, sorting, searching, data structures)
- System programming (files, processes, memory, pipes, signals, ...)
- Network programming (sockets, TCP and UDP protocols, ...)
- Databases (PostgreSQL, MySQL, Entity/Association Diagram, ...)

## Skills

### Languages

Python Go C C++ Java Scala OCaml Rust Bash Fortran Nim ASM Elixir PHP JavaScript Lua

### Frameworks and Libraries

FastAPI Django Pytest SQLAlchemy Selenium Scrapy Pandas  
NumPy Gin Spring Boot JUnit Hibernate JavaFX Jakarta EE  
SFML Boost SDL2 Menhir ocamllex ocaml yacc Actix Rocket

### Software Engineering

Agile (Scrum) Kanban  
TDD DDD BDD CI/CD  
DevOps GitFlow

### Databases

MySQL/MariaDB H2  
PostgreSQL Redis  
SQLite Cassandra

### High-Performance Computing

MPI CUDA OpenMP OpenACC  
Spark Kafka Celery RabbitMQ

### DevOps & System Administration

GitHub Actions GitLab CI SonarQube Helm Kubernetes  
Ansible QEMU/KVM Terraform Docker Libvirt Gentoo Ebuild  
Azure (Functions, Linux VMs, AI, ...) AWS (S3, Lambda, Glacier, ...)

## Additional Information

### Languages

English C2 French C2 Taqbaylit C2 Darija A2 German A1

### Hobbies

- Reading (History, Computer Science, ...)
- 3D Printing and Modeling
- Server Administration