

JUNIOR KOUDOGBO

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LinkedIn | GitHub | [Blog & Portfolio](#)



COMPUTER SCIENCE ENGINEERING STUDENT (MASTER'S LEVEL) | SEEKING A 4-MONTH INTERNSHIP
(MAY-AUG 2026)

Technical Skills

HPC & Systems	C, C++, MPI, OpenMP, Linux (Kernel/User), Bash, Windows, Debugging (GDB, Valgrind)
Cybersecurity	Network Analysis (Libpcap, Wireshark), OWASP ZAP, Nmap, Pentesting
Dev & DevOps	Python, Java, Docker, Git, SQL, LaTeX
Languages	French (Native), English (B2 - TOEIC 915/990), Chinese (Basic)

Professional Experience

Linux Systems & Infrastructure Intern Scaleway	June 2025 – August 2025 Paris, France
— Administration and operational maintenance of virtualized Linux servers. — Development of automation scripts (Bash/Python) for system operations. — Monitoring of system resources (CPU, RAM) and performance optimization. — Drafting of technical documentation for deployment procedures.	

Academic & Personal Projects

Network Packet Analyzer (Sniffer) – C & Linux	GitHub Link
— Development of a low-level network sniffer in C using libpcap and raw sockets. — Full implementation of the OSI stack (Ethernet, IP, TCP/UDP) for packet decapsulation. — Integration of BPF (Berkeley Packet Filter) for targeted traffic analysis.	
Parallel Maze Generation – C & MPI (HPC)	GitHub Link
— Parallelization of a maze generation algorithm on distributed memory (Cluster). — Inter-process communication management via MPI and <i>ghost rows</i> technique. — Strong and weak scalability analysis and data exchange optimization.	
Fractal Calculation (Mandelbrot) – C & OpenMP (HPC)	GitHub Link
— Parallelization of the Mandelbrot set calculation on shared memory architecture. — Use of OpenMP for multi-core optimization and high-resolution image generation. — Performance measurements (Speedup/Efficiency) compared to the sequential version.	
Web Vulnerability Scanner – Python & Docker	GitHub Link
— Creation of an automated audit platform integrating Nmap, Nikto, and OWASP ZAP. — Containerized microservices architecture (Docker Compose) and REST API (FastAPI). — Automated detection of XSS, SQLi, and header misconfigurations.	

Education

Master of Engineering in Computer Science (2nd year) ISTY-UVSQ (Paris Saclay University)	2024 – Present Vélizy, France
· Key courses : Advanced Algorithms, Parallel & Distributed Programming, Operating Systems, Compiler Construction, Computer Architecture, Network Architecture.	

Integrated Preparatory Classes ISTY-UVSQ (Paris Saclay University)	2022 – 2024
· Mathematics, Physics, Engineering Sciences, Programming.	

Interests & Others

- **Student Job :** Cashier and Baker at Intermarché (2023 - Present).
- **Hobbies :** Piano & Guitar (Self-taught), Manga & Japanese Animation, Cooking, Soccer.