

# JUNIOR KOUDOGBO

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

## Technical Skills

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

## Professional Experience

<b>Linux Systems &amp; Infrastructure Intern</b> Scaleway	June 2025 – August 2025 Paris, France
<ul style="list-style-type: none"><li>— Administration and operational maintenance of virtualized Linux servers.</li><li>— Development of automation scripts (Bash/Python) for system operations.</li><li>— Monitoring of system resources (CPU, RAM) and performance optimization.</li><li>— Drafting of technical documentation for deployment procedures.</li></ul>	

## Academic & Personal Projects

<b>Network Packet Analyzer (Sniffer) – C &amp; Linux</b> — 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.	<a href="#">GitHub Link</a>
<b>Parallel Maze Generation – C &amp; MPI (HPC)</b> — 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.	<a href="#">GitHub Link</a>
<b>Fractal Calculation (Mandelbrot) – C &amp; OpenMP (HPC)</b> — 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.	<a href="#">GitHub Link</a>
<b>Web Vulnerability Scanner – Python &amp; Docker</b> — 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.	<a href="#">GitHub Link</a>

## Education

<b>Master of Engineering in Computer Science (2nd year)</b> ISTY-UVSQ (Paris Saclay University) · Key courses : Advanced Algorithms, Parallel & Distributed Programming, Operating Systems, Compiler Construction, Computer Architecture, Network Architecture.	2024 – Present Vélizy, France
<b>Integrated Preparatory Classes</b> ISTY-UVSQ (Paris Saclay University) · Mathematics, Physics, Engineering Sciences, Programming.	2022 – 2024

## Interests & Others

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