

Mohamed Abe

*Engineering Student in Computer Architecture,
Systems and Networks*

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Profile

Second-year engineering student at ENSEEIHT (ASR major), passionate about **cybersecurity**, **Linux systems** and **DevOps/Cloud** technologies. Seeking a **2–4 month internship** starting from **late May 2025** in cybersecurity, systems engineering or DevOps.

Education

- 2024 – Present **Engineering Degree (ASR)**, ENSEEIHT, Toulouse, France
2022 – 2024 **Preparatory Classes – MP Track**, IPGEI, Nouakchott, Mauritania
2022 **Scientific Baccalaureate (Mathematics), Highest Honors, Mauritania**

Experience and Projects

- Summer 2024 **Secure Messaging Application**, Internship – Ministry of Digital Affairs, Mauritania
 - Developed the backend using **Spring Boot** (JWT authentication, REST APIs, file handling).
 - Designed the **MySQL** database and developed the mobile application using **Flutter**.
- 2025 **2D Physics Simulator**, Team project – Java
 - Simulation of motion, collisions and forces with a graphical interface.
- 2025 **Unix Mini-Shell**, Individual project – C
 - Implemented a mini-shell supporting processes, pipes, redirections and signal handling.
- 2024 **Huffman Coding**, Individual project – Ada
 - File compression and decompression using a binary Huffman tree.
- 2023 **Ultrasonic Radar**, TIPE project – Arduino
 - Designed a distance and speed measurement system using an ultrasonic sensor.

Technical Skills

- Languages C, Python, Java, Ada, SQL, Bash, Dart/Flutter.
Systems Linux administration (SSH, systemd), networking (TCP/IP, VLANs, routing).
Backend Spring Boot (REST, JWT), MySQL.
DevOps/Cloud Docker, Git, basic CI/CD, AWS (foundations).
Hardware FPGA (Nexys4 DDR), Arduino.

Languages

- Arabic Native
French Fluent
English Technical intermediate level

Awards

- 2022 International Mathematical Olympiad (Honorable Mention, Oslo)
2022 Pan-African Mathematical Olympiad (Bronze Medal, Morocco)
2022 National Math Olympiad (1st Place, Mauritania)

Involvement and Interests

- 2025 Science tutor (SVC Toulouse): group support for middle and high school students; pedagogy and technical explanations.
Interests Cybersecurity, Linux systems, embedded electronics, technical design, understanding how systems and devices work.