

# 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 (1<sup>st</sup> 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.