

Houssam Salek

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Profile

Third-year IIR engineering student at EMSI seeking a **PFA internship starting 01/07**. Strong foundation in **PHP/MySQL** (authentication, roles, CRUD, admin dashboard) and **Linux/Bash**. Motivated to contribute quickly, learn best practices (security, architecture, testing), and deliver real features.

Education

EMSI – École Marocaine des Sciences de l'Ingénieur 2023–Present
Engineering Student (3rd year, IIR)
Relevant coursework: Algorithms, Data Structures, OOP, OS/Linux, Databases, Web Development.
Baccalauréat Scientifique – Sciences Physiques 2022

Projects

LahekLibrary – Web App (PHP / MySQL) *Personal project*

- Built a library management web application with **login/signup**, **sessions**, and **role-based access** (admin/client).
- Developed **admin dashboard** and **CRUD** features using **PDO prepared statements** for database safety.
- Implemented user features such as **wishlist** and profile-related actions.

SysAuditKit – Linux Auditing Tool (Bash / Linux) *Personal project*

- Created a CLI tool for system auditing with modules: **init**, **report**, **search**, **monitor**.
- Implemented log search using **find/grep** and process monitoring using **ps** (with management actions).
- Packaged the tool as a **Debian (.deb)** package with install/remove workflow.

Multimedia Library Management (C++) *Team project (80%+ contribution)*

- Developed an OOP console system using **inheritance/polymorphism**, **STL**, and **smart pointers**.
- Implemented roles (Client/Admin/SuperAdmin), business rules (subscriptions), and file-based persistence.
- Focused on clean class design, input validation, and error handling.

Aim Trainer Web Game (HTML / CSS / JavaScript)

- Interactive browser game with timers, scoring system, UI animations, and random targets.

Technical Skills

Backend: PHP, MySQL, SQL, PDO, Sessions/Auth

Web: HTML, CSS, JavaScript (DOM, events)

Systems: Linux, Bash scripting

Programming: C, C++ (OOP, STL), Python (basic)

Tools: Git/GitHub, GCC, VS Code

Languages

Arabic (Native)

French (Intermediate)

English (Intermediate)

Interests

Backend development, Linux systems, software engineering, building practical projects and deploying real applications.