EL MEHDI BENNAMROUCHE

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SUMMARY

I'm a software development student at **1337**, part of the 42 Network, with experience in backend technologies like **Java** and **Spring Boot**, and frontend development using **Angular**. I've also worked with **Selenium** and Java for automated testing. Through personal projects, I've sharpened my coding and problem-solving skills and am eager to deepen my expertise in Java Spring Boot and Angular while applying it in collaborative, real-world environments

SKILLS

Programming Languages

Java, Python
C, C++

Web Development

Angular, Spring Boot
HTML, CSS, JavaScript

Tools and Technologies

Docker, selenium, SQL   Maven & Junit

GIT & Github

SOFT SKILLS

- Strong Communication
- Time Management
- Team Collaboration
- Adaptability
- Critical Thinking
- Problem Solving

EDUCATION

1337 (42 Network) 2022

Faculty of Sciences Semlalia (FSSM) 2021 -> 2022

PROJECTS

WEBSERV – HTTP SERVER DEVELOPMENT C++

Developed a custom **HTTP server** in C++, focusing on non-blocking I/O and efficient client-server communication.
- Implemented GET, POST, and DELETE requests.
- Added CGI support for executing **PHP** and **Python** scripts.
- Configured file upload handling and error responses.

IRCMULTICLIENT – JAVA GUI APPLICATION

Created a **Java** GUI application that simulates 200 clients connecting to an **IRC server**, joining a channel, and exchanging messages.
- Connects 200 clients to an IRC server.
- Sends/receives messages between clients.
- Channel management with easy-to-use interface.

DIRSPIDER – DIRECTORY BUSTING TOOL

Built **DirSpider**, a directory-busting tool similar to DirBuster.
using **Java** and **Apache** HttpClient to discover hidden directories and files on web servers

MY-NOTE – JAVA SWING APPLICATION

Created a **Java Swing** application to manage notes with **MySQL** and **JDBC**.
- CRUD operations to create, read, update, and delete notes stored in a MySQL database.
- User-friendly interface for seamless note management.
- JDBC integration for database connectivity and data persistence.

PINGPONG – FULL-STACK WEB APPLICATION (DJANGO + REACT)

- Developed PingPong, a web application using **Django** for the backend and **React** for the frontend
- **Google OAuth** integration for user authentication.
- User management including registration, login, and account blocking.
- Notification system for real-time user alerts.
- Designed an **ER diagram** for efficient database structure.
- Implemented **RESTful AP**Is to handle user data and interactions.

INCEPTION – DOCKER SYSTEM SETUP

- Built and configured a Docker-based environment with **NGINX**, **WordPress**, and **MariaDB**
- automated container deployment with **Docker Compose.**
- optimized security with environment variables and Docker secrets