MOHAMMED BOURHYM

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in MOHAMMED BOURHYM

PROFILE

Driven by an insatiable curiosity for computer science, I thrive on tackling complex problems and pushing the boundaries of technology. My goal is to transform my passion for innovative solutions into meaningful contributions that shape the future of computing .

EDUCATION

Ecole Normale Supérieure de l'Enseignement Technique (ENSET)   *2023 – Present*
Cycle d'ingénieur en Génie du Logiciel et des Systèmes Informatiques Distribués   Mohammedia, Maroc

Faculté des sciences, Université Abdelmalek Essaâdi   *2021 – 2023*
DEUG Computer and Mathematic Science (SMI)   Tétouan, Maroc

Lycée ABI EL ABBAS SEBTI   *2020 – 2021*
Baccalauréat Mathematical Sciences   Tangier, Maroc

EXPERIENCES

Web Developer | Internship   *July 2024 - September 2024*
Foliatech   Tangier, Morocco

- Designed and developed an employee management platform, streamlining human resource management processes.
- Developed secure APIs and implemented route protection mechanisms to ensure user data privacy.

PROJECTS

Employee Management System

- A full-stack **Angular** application for business administrators to manage employee data, track work activities, and enhance productivity. It features employee profile management, activity monitoring, and role-based access control. The backend, built with **Node.js** and **Supabase**, ensures secure data handling with **JWT** authentication and protected API routes, integrating seamlessly with the Angular frontend via RESTful APIs.

eduN7 – Multimodal AI Chatbot

- eduN7 is an innovative chatbot that leverages Retrieval-Augmented Generation **(RAG)** to provide precise and contextual responses by combining document retrieval and generative **AI**. It supports multimodal inputs, allowing users to upload documents for custom context generation. Built with **JavaFX** for the UI, a **Flask** backend, and **Llama** 3.2 for text generation, it integrates **Chroma** for semantic search and **LangChain4J** for document processing, transforming static documents into interactive learning resources.

Transcription Generator

- Application that seamlessly generates transcriptions from user-provided videos using **Whisper**, **Node.js**, and a **React**-based interface. The platform allows users to upload videos, process audio with Whisper for accurate speech-to-text conversion, and display the transcriptions in an intuitive and interactive UI. Designed for efficiency and ease of use, the application ensures maintaining high transcription accuracy.

KNOWLEDGE AND SKILLS

- **WEB DEVELOPMENT** : HTML, CSS, JavaScript, React, Spring, Bootstrap, Node.js, Angular
- **Databases** : MySQL, MongoDB, PostgreSQL, Redis
- **Programming Languages** : Java, JavaScript , C++, PHP, Python
- **Core Programming Skills** : Data Structures, Git, OOP (Object-Oriented Programming)

CERTIFICATES & ACTIVITIES

- Web Development Bootcamp
- Angular: The Complete Guide
- Python for Data Science
- Networking Essentials
- English for IT 1

- Co-Founder ENSET PODCAST
- Core Team Google developers group
- Shorts Editor ENSET PODCAST