Hammamid Ahmed Issam

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Education

University of Algiers 1 Benyoucef Benkheda   **Expected Graduation: June 2025**
Masters of Data Science and analytics   *Algiers*

- Main Courses: Advanced Machine Learning, Cloud And No SQL Databases, Data mining, Big Data, OLAP And Data Ware Housing, Data Visualisation

University of Algiers 1 Benyoucef Benkheda   **Graduated in June 2023**
Bachelor's in Computer Science   *Algiers*

- Main Courses: Web Development, Operating Systems, Data Structures and Algorithms, Software Engineering, Computer Architecture, Mobile Development

Work Experience

Djezzy   **Nov 2024 – Jun 2025**
Data Science Intern   *Algiers*

- Engineered **Large Language Models (LLMs)**, including **Qwen** and **LLaMA3.2**, to build an HR chatbot using techniques like **Retrieval-Augmented Generation (RAG)** with **LangChain**, and fine-tuned models with **Unsloth** and **QLoRA** to ensure domain-specific accuracy
- Analyzed Djezzy's internal **HR documents** to generate precise **Q&A datasets**, significantly improving chatbot response relevance and trustworthiness
- Developed an interactive platform with a **React** frontend and **Flask** backend, allowing employees to easily query HR policies and access key information
- Dockerized the entire application for streamlined deployment and enhanced **scalability** across multiple environments

Djezzy   **Mar 2023 – Jul 2023**
Web Developer Intern   *Algiers*

- Built and maintained a full-stack **dashboard web application** using **Spring Boot** for the backend and **React** for the frontend during a **5-month internship** with Djezzy's Data Team
- Cleaned, processed, and analyzed large-scale datasets to ensure **data quality**, leading to more reliable business insights
- Designed and implemented interactive **data visualizations** that revealed actionable insights, supporting **data-driven decision-making** across departments

Projects

RecipeHub | *Source Code*   **Javascript | ReactJS | NodeJS | PostgreSQL | Python**

- ∗ Built a full-stack web application that allows users to browse, search, comment on, and save recipes, as well as generate personalized meals based on their preferred protein and calorie intake plans using a **genetic algorithm** in **Python**
- ∗ Scraped recipe data from the web using **Selenium** and **Python** to populate a **PostgreSQL** database
- ∗ Implemented a **ReactJS** frontend with **Node.js** for the **REST API** backend, **JWT** and **Passport.js** for secure authentication, and used **Sequelize ORM** with a **PostgreSQL** database

QuizzMe | *Source Code*   **TypeScript | ReactJS | NestJS | Redis | PostgreSQL | Web Sockets | TailWind CSS**

- ∗ Built a real-time quiz trivia web application where users can authenticate, create or join rooms, and play together with live score updates after each round
- ∗ Used **NestJS** for the backend and **ReactJS** for the frontend; used **Socket.IO** with **WebSockets** for real-time communication and **Redis** for managing non-persistent room data
- ∗ Implemented secure authentication using **JWT** and **Passport.js**, and performed input validation with **Zod**
- ∗ Containerized the entire application using **Docker**, deployed with **Nginx** as a reverse proxy, and followed modern **security best practices** throughout the development process

Odoo Prospect Manager | *Source Code*   **Python | Odoo | XML | PostgreSQL | CSS**

* Developed a custom **Odoo 18** module for managing regions, commercial teams, prospects, and clients as part of a technical assessment
* Designed models for regional management, enabling linkage between commercial teams and specific geographical zones with designated Team and Commercial Leads
* Implemented prospect creation and assignment workflows with role-based logic: Team Leads can assign prospects to members; members auto-assign to themselves
* Built a custom prospect pipeline with stages (*Contact Prospect*, *Offer Sent*, *Won*, *Lost*); automated client conversion upon winning prospects
* Integrated dynamic PDF generation to export client details and acquisition history, including acquisition owner, offer dates, and win status

Audio Command Recognition System for Arduino | *Source Code*   **Python | Machine Learning**

* Built a machine learning model for audio command recognition and classification tailored for deployment on **Arduino** devices
* Processed and analyzed audio data using **Librosa**, and trained classification models using **scikit-learn**
* Enhanced model performance and dataset diversity by applying various **data augmentation** techniques to the audio inputs

Technical Skills

Languages: Python, SQL, HTML5, CSS, JavaScript , TypeScript

Databases: MySQL, PostgreSQL , Redis

Developer Tools: Postman, PowerBI, Git, Docker , Github Actions

Libraries/Frameworks: ReactJS, ExpressJS, Odoo, TailWindCSS

Languages

Arabic (Native)

French (Fluent)

English (Proficient)