

# Abdelhamid Ramdani

full-stack developer

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Djelfa, Djelfa, Algeria

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Full-Stack Developer and CTO of FreeFlow, an officially incubated startup, with experience building secure, scalable web applications using Node.js and React. AI Master's graduate from Ziane Achour University seeking a senior technical leadership role at a forward-thinking tech company.

## Education

### Master's Degree in Artificial Intelligence and Its Applications at Ziane Achour University of Djelfa, Djelfa, Algeria

September 2023 - July 2025

**Grade:** 13.26/20

A comprehensive program focused on advanced AI concepts and practical application, culminating in a high-impact graduation project ( Thesis Grade: 19.85/20).

- Core Competencies: Acquired in-depth knowledge in Advanced Machine Learning, Data Mining, and Natural Language Processing (NLP).
- Data Engineering: Gained expertise in Advanced Databases and Big Data technologies, essential for handling large-scale data.
- Practical Application: Successfully completed a professional internship (Internship Grade: 17/20), applying theoretical knowledge to real-world challenges.
- Supporting Skills: Developed skills in Project Management, Advanced Algorithms, and Decision Support Systems.

### Bachelor's Degree (Licence) in Information Systems at Ziane Achour University of Djelfa, Djelfa, Algeria

September 2020 - July 2023

**Grade:** 11.05

A comprehensive undergraduate program that provided a strong foundation in software engineering and core computer science principles.

- Software Development: Gained practical skills in Software Engineering, Object-Oriented Programming (OOP), Web Development, and Mobile Applications.
- Systems & Infrastructure: Developed a solid understanding of Databases, Operating Systems, Computer Networks, and Information Security.
- Practical Application: Successfully completed a final year development project (Project Grade: 15.50/20) and coursework in entrepreneurship ("Create and Develop a Startup"), demonstrating a hands-on and innovative approach.
- Core CS Foundation: Built expertise in fundamental concepts including Algorithms & Data Structures, Information Systems, and an introduction to Artificial Intelligence.

## Employment History

### Co-founder & CTO at FreeFlow, Djelfa, Algeria

March 2025 - Present • [↗](#)

- Implemented a multi-layered security protocol, including authentication with bcrypt & JWT and threat mitigation with Helmet, successfully protecting sensitive user data.
- Led the end-to-end architecture and development of the core backend system using Express.js, resulting in a scalable and secure platform ready to serve 1000+ users.
- Engineered and managed the MongoDB database schema, implementing robust data handling processes that improved data retrieval efficiency by 30%.
- Enhanced application capabilities by integrating third-party services, including the Hugging Face Inference API to power core AI-driven features.
- Established a comprehensive API testing and documentation workflow using Postman and APIdog, achieving 99% test coverage and ensuring high reliability.

### Front-End Developer at Nhanik, Remote

March 2024 - July 2024 • [↗](#)

- Developed and restructured key user-facing pages using Next.js and Vite.js, leading to a 40% improvement in page load speeds.

- Expanded the platform's global reach by implementing a full internationalization (i18n) framework, enabling support for 2 new languages.
- Boosted user experience by implementing advanced data fetching and caching strategies with React Query, reducing server request latency by 50%.
- Mentored and upskilled 2 junior developers on modern front-end best practices, improving team-wide code quality and development velocity.

## Internships

### Artificial Intelligence Intern at Algérie Télécom, Djelfa, Algeria

May 2025 - May 2025 • [↗](#)

## Skills

**Programming Languages:** JavaScript, Python, C#, SQL

**Front-End Development:** React.js, Next.js, Vite.js, React Query, Shadcn/UI, i18n.js

**Back-End Development:** Node.js, Express.js, RESTful APIs

**Databases:** MongoDB, MySQL, PostgreSQL

**AI & Data Analysis:** Python, Machine Learning Concepts, Data Analysis

**Developer Tools & DevOps:** Git, GitHub, Docker, Postman, APIdog, VS Code, npm

**Core CS Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, State Management

**Professional Interests:** -

- Developing end-to-end, scalable, and user-centric software solutions.
- Continuous learning and applying emerging technologies and best practices in software development.
- Knowledge sharing and contributing to the tech community through workshops and training.
- Exploring diverse fields like marketing and design for a holistic understanding of product development.

## Volunteering

### Member at AFAK Club, Djelfa, Algeria

September 2023 - July 2025

- Actively participated in all club activities since January 2023, demonstrating consistent commitment to the organization.
- Initiated and co-organized a successful Artificial Intelligence workshop based on the NVIDIA Fundamentals of Deep Learning program, benefiting numerous students.
- Contributed to organizing an educational trip for medical students to Nayla Hospital, broadening student horizons beyond their core studies.
- Facilitated internal training sessions on diverse topics, including marketing and design, fostering skill development among club members.

## Projects

### colorea • [↗](#)

An e-commerce platform specializing in healthy food colorants extracted from natural herbs, targeting housewives, food and pharmaceutical companies. Features direct purchasing, electronic payments, and a modern, appealing visual identity.

### Trade & Sports Arbitration Center • [↗](#)

First digital startup platform in Algeria specializing in commercial and sports arbitration and alternative dispute resolution. Provides independent, impartial services with focus on speed, flexibility, and reliability through digital transformation.

### FreeFlow • [↗](#)

Developed a comprehensive, Cross-Platform solution (Web, Desktop, and Mobile applications) designed to accelerate the digital maturity of Algerian SMEs. The platform delivers critical integrated services, including Intelligent Process Automation (IPA), advanced User Experience (UX/UI) refinement, strategic branding, and content creation, underpinned by AI-driven marketing solutions. This demonstrates strong capability in multi-platform development and integrating AI for strategic business enhancement.

### minha • [↗](#)

Developed a robust Python-based bot to streamline the complex process of securing unemployment benefit appointments (ANEM). The solution critically accelerates registration by overcoming high website traffic and availability challenges. It provides comprehensive automation for continuous monitoring, data entry, intelligent calendar analysis for optimal date selection, and remote control via a dedicated Telegram API interface. This project demonstrates high proficiency in building stable, reliable, and maintainable systems using a Class-based design architecture.

#### **URGO • [↗](#)**

Developed a comprehensive, multi-faceted (Full-Stack Web/Mobile) technical system aimed at automating and significantly improving emergency response operations. The project consists of an advanced mobile application for paramedics that enables navigation via an Interactive Map and immediate transmission of patient medical data, alongside an integrated web platform for hospitals to efficiently manage staff and track bed availability. Furthermore, a centralized administrative dashboard was built to provide Advanced Analytics tools and comprehensive performance monitoring. The result is a critical reduction in response time, ensured real-time coordination, and improved health decision-making processes.

#### **public Service Inspectorate • [↗](#)**

Developed a high-fidelity prototype (Unified E-Service Platform) for a governmental body, specifically designed for strategic presentation to the Public Service Inspectorate. The project focused on digitalizing public services by showcasing a functional, end-to-end system for diploma equivalence requests. The prototype highlights:

- Quantifiable Impact: Demonstrated the potential to reduce average processing time to 15 days and manage large volumes (simulating over 12,450 processed requests).
- Feature Set: Implemented secure submission, real-time tracking, and Advanced Analytics Dashboards for administrators.
- This demonstrates strong capability in rapidly building professional, data-driven solutions for public sector entities.

### **Languages**

**Arabic** - Native

**English** - Basic

**French** - Basic