

# 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 • ↗

- Mastery of Server and Network Infrastructure Concepts: Acquired an in-depth and comprehensive understanding of Windows Server methodologies and core CCNA concepts, establishing a solid foundation for enterprise-level technical environments.
- Analysis of Telecommunication Network Architectures: Systematically studied the setup and interconnection requirements for corporate networks, including cable infrastructure and protocols necessary for effective external communications.
- In-depth Study of Vendor Technologies: Engaged in a methodical examination of technical concepts related to servers and network equipment provided by global vendors like Huawei and ZTE, enhancing understanding of best practices in the telecommunications sector.

## Skills

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

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

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

**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

## **Certificates**

### **Magic ToDo: An AI Tool to Make Complex Projects Simpler from LinkedIn**

June 2024 • ↗

This advanced training was completed to leverage sophisticated Artificial Intelligence (AI) tools for project management and simplification. The curriculum focused on gaining expertise in using AI capabilities to streamline the scope of complex projects, enhance the efficiency of technical task management, and improve the overall development process. This knowledge enables the application of best practices to bridge the gap between complex ideas and structured, manageable development stages, directly supporting my role in technical leadership and software engineering.

### **Git from Scratch from LinkedIn**

June 2024 • ↗

Completed comprehensive training focused on mastering the fundamentals of the Git version control system from the ground up. The course provided an in-depth understanding of core version control concepts, including advanced techniques for managing branches, performing complex merges, and efficiently resolving conflicts. This certification reinforces proficiency in using distributed version control systems to ensure a robust, collaborative development workflow and maintain code integrity, which is crucial for the reliability and scalability of an early-stage startup's codebase.

### **LinkedIn Workshop from AFAK Club**

February 2025 • ↗

Successfully completed an intensive workshop focused on professional networking and personal branding. Gained invaluable skills to effectively: optimize the professional LinkedIn profile, strategically build and engage with industry connections, and leverage LinkedIn tools to unlock new career opportunities. This training enhances strategic communication and professional visibility, complementing technical leadership skills.

### **Strategic Thinking Workshop from AFAK Club**

February 2025 • [↗](#)

Successfully completed an intensive workshop that enabled the development of strategic thinking skills by formulating actionable frameworks to effectively tackle complex challenges. Acquired vital skills for making confident, data-driven decisions to navigate ambiguity and achieve results. Further enhanced the ability to plan with precision, aligning short-term actions with long-term goals to drive purposeful growth. These skills are fundamental to my role as a technical leader responsible for setting the strategic course of the product and the startup.

### **Critical Thinking Workshop from AFAK Club**

February 2025 • [↗](#)

Successfully completed an intensive workshop that transformed the approach to problem-solving and decision-making by mastering critical thinking. The training focused on decoding complex, ambiguous problems into actionable, data-driven insights and applying objectivity to design strategic, bias-free solutions. This expertise is essential for navigating technical ambiguity and building robust, innovative systems within a fast-paced startup environment.

### **Graphic Design Workshop from AFAK Club**

February 2025 • [↗](#)

Successfully completed a specialized workshop in graphic design focused on developing skills in Visual Storytelling and building Brand Identity. The workshop provided fundamental skills in Creative Problem-Solving, enhancing my ability to contribute to User Experience (UX/UI) improvement and the design of attractive interfaces. This is a crucial complementary skill for technical leadership in developing integrated and impactful products.