

Abdelhamid Ramdani

full-stack developer

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[LinkedIn](#) • [GitHub](#)

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.

Languages

Arabic - Native

English - Basic

French - Basic