

Ibrahim Bendada

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ABOUT ME

I am a motivated web developer with a strong background in full-stack development, artificial intelligence, and logistics optimization. Skilled in technologies like Node.js, React, Flutter, and Python, I enjoy building smart solutions that solve real-world problems. I'm particularly interested in applying machine learning to improve transportation systems and user experiences.

EDUCATION

Master's Degree in Data Engineering and Web Technologies 2023-2025
University of Ferhat Abbas Setif - 1, Setif, Algeria

✓ Focus: Data Engineering, Web Technologies, Machine Learning, AI Systems

Bachelor's Degree in Information Systems 2020-2023
University of Ferhat Abbas Setif - 1, Setif, Algeria

✓ GPA: 13.5 / 20 (3.0 / 4.0)

✓ Relevant Courses: Databases, Software Engineering, Computer Networks

Baccalaureate – Mathematics 2019-2020
High School Omar Hrayeg, Setif, Algeria

✓ Passed with Fairly Good

Baccalaureate – Mathematics 2018-2019
High School Omar Hrayeg, Setif, Algeria

✓ Passed with Fairly Good

PROJECTS

Transigo – Goods Transport Platform

A mobile application and admin dashboard that connects clients and drivers for real-time goods transportation and shared deliveries.

- ✓ Technologies : Node.js and Express.js (Backend API), MySQL (Database), Flutter (Mobile Application), React (Admin Dashboard Frontend), Firebase (Push Notifications & Real-time Location), Flask (Machine Learning API), REST API, Machine Learning (Clustering, Recommendation), Online Payment Integration (Chargily Pay API)
- ✓ Features: Client app, Driver app, Admin panel, Real-time driver tracking, Push notifications, Shared booking feature, Recommender system
- ✓ Role: Full-stack Developer

E-Commerce Mobile Application

An online shopping mobile app allowing users to browse products, add to cart, and make orders.

- ✓ Technologies :Flutter (Frontend), PHP (Native Backend), MySQL, Firebase for push notifications
- ✓ Features: Product catalog, user authentication, cart, order tracking
- ✓ Role: Full-stack Developer

Doctor Appointment & Chat App

A mobile app to help patients book appointments with doctors and communicate via real-time messaging.

- ✓ Technologies : Flutter, Firebase (Firestore, Authentication, Realtime Messaging)
- ✓ Features : Doctor listing, appointment booking, live chat
- ✓ role : Mobile App Developer

Blood Donation Connector App

A community-focused mobile app that connects blood donors with people in need of blood.

- ✓ Technologies : Flutter, Firebase,
- ✓ Features : Donor registration, blood request notifications, real-time location matching
- ✓ role : Mobile App Developer

SKILLS

Computational

- **Python:**
- ✓ Built machine learning models for clustering and recommendation (e.g., K-Means, GNN, ANN, ...).
- ✓ Performed data preprocessing, visualization, and evaluation using libraries like NumPy, Pandas, Matplotlib.
- ✓ Developed Flask APIs for model deployment and system integration.

Web & App Development

- **Node.js & Express.js:**
- ✓ Built secure RESTful APIs for mobile and web applications.
- ✓ Integrated with MySQL databases and external payment gateways.
- **React:**
- ✓ Developed dynamic admin dashboards with data visualization and role-based control.
- **Flutter:**
- ✓ Built cross-platform (iOS & Android) mobile applications with Firebase integration (notifications, authentication, real-time database).
- ✓ Used GetX for efficient state management, navigation, and dependency injection.
- **MySQL & Firebase:**
- ✓ Designed and managed relational databases.
- ✓ Used Firebase for real-time features and cloud messaging.

Docker

- ✓ Containerized backend (Node.js/Flask) and ML services for development and deployment.
- ✓ Created and optimized Dockerfiles and docker-compose setups for multi-service applications.

Git & GitHub

- ✓ Version control for solo and collaborative projects.
- ✓ Managed repositories, branches, pull requests, and project issues professionally.

Problem Solving

- ✓ Investigated logistics inefficiencies and modeled clustering-based solutions
- ✓ Formulated scalable data pipelines and backend architectures

- ✓ Coordinated full-stack development across multiple mobile and web projects
- ✓ Created user-centered applications addressing real-world needs
- ✓ Evaluated model performance using metrics like silhouette score and adjusted for optimal K value

Typesetting & Documentation

- **L^AT_EX**:
- ✓ Created complex equations and data tables
- ✓ Collaborated on technical documentation and presentations

Languages

- **Arabic**: Native
- **French**: Intermediate (spoken and written)
- **English**: Intermediate (spoken and written)

EXPERIENCE

Freelance Software Developer

sept 2021 – Present | Remote

Setif, Algeria

- ✓ Developed custom mobile and web applications using Flutter, Node.js, MySQL, and Firebase.
- ✓ Built full-stack solutions including admin dashboards, REST APIs, and integrated online payment systems.
- ✓ Implemented real-time features such as chat messaging, notifications, and live driver tracking using Firebase.
- ✓ Built and integrated Flask APIs for ML model inference and backend communication
- ✓ Collaborated with clients across logistics, e-commerce, and healthcare sectors to deliver data-driven mobile solutions.

Architectural Product Sales & Design Services

sept 2020 – June 2023

Setif, Algeria

- ✓ Assisted clients with personalized design consultations and layout visualizations.
- ✓ Designed 2D/3D floor plans and elevation renderings using AutoCAD and related tools.
- ✓ Provided architectural printing services including high-quality plan impressions.
- ✓ Sold architectural tools and digital design materials to local clients.

CERTIFICATIONS & AWARDS

Entrepreneurship Training Program

2025

Incubator – University Ferhat Abbas Sétif - 1 | Sétif, Algeria

- ✓ Completed hands-on training in business model development, startup strategy, and innovation.

Startup Label – TransiGo

2025

Ministry of Knowledge Economy and Startups | Algeria

- ✓ Officially recognized and labeled as an innovative project for the project *TransiGo*.

English Language Course

2023

ADHOC Institute | Sétif, Algeria

- ✓ Completed intermediate to advanced level English training, focusing on communication and technical vocabulary .