Ibrhim 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, Re‑act,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 Notifi‑cations & 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 no‑tifications, 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
- LATEX:
- ✓ 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 inte‑ grated 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 com‑ munication
- ✓ Collaborated with clients across logistics, e‑commerce, and healthcare sec‑ tors 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 visual‑ izations.
- ✓ Designed 2D/3D floor plans and elevation renderings using AutoCAD and related tools.
- ✓ Provided architectural printing services including high‑quality plan impres‑ sions.
- ✓ 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 strat‑ egy, 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 com‑ munication and technical vocabulary .