

Boulekzazel Tayeb

+213777342252 | ttayeb769@gmail.com

 [tayeb boulekzazel](#) |  [Tayeb Boulekzazel](#)

Sétif, Algérie

OBJECTIVE

Passionate about Artificial Intelligence and logistics optimization, I specialize in developing smart, scalable solutions that address real-world challenges. Proficient in technologies such as Node.js, React, Flutter, and Python, I thrive on building intelligent systems that enhance efficiency and user experience. My interests lie particularly in the application of machine learning to improve transportation systems, shared logistics, and intelligent booking platforms.

EXPERIENCE

• Freelance Software Developer

Setif, Algeria | Remote

Sept 2021 – Present

- Developed full-stack mobile and web applications using Flutter, Node.js, React, and Python.
- Designed and implemented RESTful APIs and real-time features using Firebase (chat, notifications, live tracking).
- Built intelligent features using machine learning for smart booking and logistics optimization.
- Created admin dashboards, integrated payment gateways, and managed deployment of scalable systems.
- Collaborated with clients in logistics, delivery tracking, and AI-based service platforms.

• IT and Tech Services Provider

Setif, Algeria

Sept 2020 – Aug 2021

- Offered hardware/software troubleshooting, system maintenance, and small-scale network setup services.
- Provided personalized IT support for students, local businesses, and university clients.
- Supported the deployment and configuration of educational tools and platforms.

EDUCATION

• University of Ferhat Abbas Setif-1

Master's Degree in Data Engineering and Web Technologies

Expected 2025

Setif, Algeria

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

• University of Ferhat Abbas Setif-1

Bachelor's Degree in Information Systems

2020 – 2023

Setif, Algeria

- GPA: 12.5 / 20 (approx. 3.0 / 4.0)

- Relevant Courses: Databases, Software Engineering, Computer Networks

• Omar Hrayeg High School

Baccalaureate – Mathematics

2019

Setif, Algeria

- Passed with: Fairly Good

PROJECTS

• Blood Donation App: A mobile application to connect blood donors and recipients in real-time

Tools: Flutter, Firebase (Auth, Firestore, Storage), Google Maps API

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- Developed authentication system using Firebase with role-based login for donors and hospitals
- Implemented location tracking with Google Maps to match donors based on proximity
- Created dynamic request/response UI with push notifications using Firebase Cloud Messaging
- Applied Firestore queries to analyze active donors by region and blood type

• Recommender System for E-commerce: Content-based recommendation system for shopping app

Tools: Flutter, MySQL, Node.js, Express

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- Developed product recommender based on user preferences using content filtering techniques
- Implemented backend with REST APIs in Node.js to serve real-time suggestions from MySQL DB
- Created dashboard to visualize recommendation accuracy and engagement trends
- Developed modular components for future collaborative filtering integration

• TransiGo: A smart delivery tracking and route optimization platform

Jan 2024 - Present

Tools: Flutter, MySQL, Node.js, Knex.js, Docker, Firebase

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- Developed cross-platform mobile app for clients and drivers using Flutter
- Integrated route optimization using k-means clustering and Travelling Salesman Problem (TSP) logic
- Created RESTful backend with Node.js and MySQL, containerized with Docker for deployment
- Implemented real-time notifications and analytics dashboard for shipment tracking

SKILLS

- **Programming Languages:** Dart, JavaScript, Python
- **Web Technologies:** HTML5, CSS3, Node.js, Express.js, REST APIs
- **Database Systems:** MySQL, SQLite, MongoDB, Firestore
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, Matplotlib, K-Means, Content-Based Filtering
- **Cloud Technologies:** Firebase, Cloudinary, Heroku
- **DevOps & Version Control:** Git, GitHub, Docker, VS Code, Postman
- **Specialized Area:** Recommender Systems, Route Optimization, Mobile App Development, Multi-Agent Systems
- **Mathematical & Statistical Tools:** LaTeX, Excel, Graph Theory, Probability, Linear Algebra
- **Other Tools & Technologies:** Figma, Draw.io, Adobe XD, Google Maps API, Firebase Messaging
- **Research Skills:** Technical Writing, Experimentation, Data Analysis, Literature Review, Report Generation, Algorithm Design

LANGUAGES

- **Arabic:** Native proficiency
- **French:** Intermediate (spoken and written)
- **English:** Good proficiency — IELTS: Reading–7, Writing–7.5, Speaking–6, Listening–6. Demonstrated strong writing and reading through academic work and technical documentation. Speaking and listening practiced through team collaboration and presentations.

CERTIFICATIONS

- **Entrepreneurship Training Program**
Incubator – University Ferhat Abbas Sétif-1 | Sétif, Algeria 2025
 - Completed hands-on training in business model development, startup strategy, and innovation.
- **English Language Course**
ADHOC Institute | Sétif, Algeria 2023
 - Completed intermediate to advanced English training, focusing on communication and technical vocabulary.