DJIHANE TORCHANE

Full-Stack Developer | AI Engineer | Data Scientist

✉ kd_torchane@esi.dz 📞 +213 781 038 183 in LinkedIn ⌂ GitHub

PROFESSIONAL SUMMARY

Results-driven Full-Stack Developer and AI Engineer with 2+ years of experience building scalable web applications and machine learning solutions. Proven expertise in React.js, Node.js, Django, and Python for developing enterprise-grade banking systems and predictive AI models. Strong background in database design, API development, and cloud technologies. Seeking to leverage technical skills and innovative problem-solving abilities in a challenging full-stack or AI development role.

TECHNICAL SKILLS

Programming Languages: Python JavaScript SQL R PHP

Frontend Technologies: React.js HTML5 CSS3 Bootstrap Responsive Design

Backend Frameworks: Node.js Express.js Django FastAPI Laravel

Databases: PostgreSQL MongoDB MySQL Firebase Supabase

Machine Learning: scikit-learn TensorFlow LightGBM Pandas NumPy

Cloud & Tools: Git GitHub Agile/Scrum Streamlit Figma Clerk Authentication

Specialized Skills: REST APIs JWT Authentication RBAC Microservices Data Visualization

PROFESSIONAL EXPERIENCE

Full-Stack Developer | Finoutsource
October 2024 – June 2025

- Architected and developed comprehensive core banking system using React.js, Django, and PostgreSQL
- Built 15+ secure REST APIs for account management, transactions, and loan processing with JWT authentication and RBAC
- Designed normalized relational database schemas following banking industry standards
- Implemented Agile methodology with GitHub Projects, delivering features 20% ahead of schedule

Full-Stack Developer | Gica
July 2023 – Sep 2023

- Designed UI figma prototype for the website
- Architected and developed comprehensive employees system using React.js, node js, and Mysql
- Built secure REST APIs for employee management,notification system, JWT authentication
- Implemented Agile prototype methodology

KEY PROJECTS

Fraud Detection System | Machine Learning Project
April 2025

- Developed ML pipeline achieving 94% accuracy in detecting fraudulent transactions using LightGBM on PaySim dataset
- Applied advanced feature engineering and stratified K-Fold validation techniques
- Evaluated model performance using precision-recall curves, AUC metrics, and confusion matrices

Vera Atelier E-commerce Platform | Full-Stack Development
March 2025

- Built responsive fashion e-commerce website with React.js and Supabase backend
- Developed admin dashboard with real-time inventory management and sales analytics
- Integrated dynamic product catalog with search functionality and mobile-optimized checkout

Healthcare Prediction Web Application | AI/ML Project
February 2025

- Created multi-disease prediction system for diabetes, heart disease, and Parkinson's using scikit-learn
- Deployed production-ready application with Streamlit UI, serving 500+ predictions monthly
- Implemented data preprocessing pipeline with 89% model accuracy across all conditions

Personal Blog Website | Full-Stack Development
Independent Project

- Built complete blogging platform from scratch using React.js, Express.js, and MongoDB
- Implemented Clerk authentication system for secure user management and access control
- Developed responsive design with rich text editor, comment system, and content management features
- Created RESTful API architecture with full CRUD operations for posts, users, and comments

EDUCATION

Bachelor of Engineering in Information Systems
2020 – 2025

École nationale Supérieure d'Informatique (ESI), Algiers

Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Machine Learning

CERTIFICATIONS

- **Machine Learning Specialization** – DeepLearning.AI (Coursera)
- **Meta Front-End Developer Professional Certificate** – Meta (Coursera)
- **Full-Stack Development** – 1M Arab Coders Initiative

ADDITIONAL PROJECTS

- **MERN E-commerce Platform** | Full-stack application with MongoDB, Express.js, React, Node.js
- **Financial Sentiment Analysis** | Kaggle competition project analyzing market sentiment data
- **COVID Hospital Information System** | Responsive web platform for Hospital of Amizour, Béjaia

LANGUAGES

Arabic: Native   **French:** Advanced   **English:** Professional   **Spanish:** Beginner

VOLUNTEER EXPERIENCE

Technical Volunteer │ School of AI (SOAI), Algiers   *2023–2024*

- Contributed to AI community events and hackathon organization
- Assisted in technical documentation and event logistics management

Active Member │ Google Developer Group (GDG) – ETIC Algiers

- Participated in developer workshops and community tech events