

MOHAMED AMOR

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PROFESSIONAL SUMMARY — *Fourth-year Software Engineering student with proven experience developing production web applications for real clients. Delivered full-stack solutions using React, Node.js, and Django. Available 20 hours/week for freelance and part-time opportunities while completing degree (Expected July 2027). Seeking **Junior Full-Stack Developer** role with startups, enterprises, or agencies offering remote/hybrid arrangements.*

TECHNICAL SKILLS

Programming	Python, JavaScript, TypeScript , Java, C++, C#, C	DevOps	Git, Docker , Linux, GitHub Actions (CI/CD), cPanel
Frontend	React, Next.js , HTML5, CSS3, Tailwind CSS, Responsive Design	Cloud	Google Cloud Services, Digital Ocean VPS
Backend	Node.js, Django , Express.js, RESTful APIs, Microservices	Specialized	Unity Game Development, OpenAI Gym (RL), Elasticsearch
Databases	MongoDB, MySQL, Firebase, Supabase	Languages	English (Fluent), Arabic (Native), French (Professional)

PROFESSIONAL EXPERIENCE

Khutwa - Touristic and VR Solutions

Full-Stack Web Developer (Freelance)

08/2024 - 07/2025 — Hybrid — All Intelligence Solutions

- Designed and developed full-stack SaaS platform serving monthly active users
- Built **RESTful APIs** using Node.js/Express for complex business logic and user authentication
- Developed responsive **React & Next.js** components achieving high mobile compatibility
- Led **cross-functional team** of 4 developers and designers, delivering projects consistently on time
- Technologies:** React, Next.js, Node.js, Express, MongoDB, REST APIs

ESI Cup Fantasy Football Platform

Project Leader

01/2024 - 06/2025 — Sport and Entertainment Club

- Led **development** of fantasy football platform used by **500+ participants** during ESI Cup tournaments
- Designed **microservices architecture** handling 100+ concurrent users during peak events
- Implemented real-time scoring system with **WebSocket** integration and Redis caching
- Managed complete user authentication, team formation, and automated scoring systems
- Technologies:** Node.js, React, WebSocket, Redis, MongoDB

Digital Craft - Around Algeria Platform

Systems Architect & Technical Lead

Academic Enterprise Project — ESI Algiers

- Led **technical design** for multi-platform tourism solution serving **tourists, administrators, and businesses**
- Prepared comprehensive **technical and financial proposals** for formal RFP process in 9-member team
- Designed **system architecture** for web and mobile applications with admin dashboard integration
- Created detailed technical specifications covering **scalability, security, and deployment strategies**
- Technologies:** System Design, Technical Documentation, Business Analysis, Project Management

Khatwa - Kindergarten Search Engine (Academic Project)

Lead Developer

03/2023 - 09/2023 — ESI Algiers

- Built geolocation-based search engine processing **1000+ kindergarten data points** across Algeria
- Developed **complete CRUD reservation system** with client management and review functionality
- Integrated **Google Maps API** for interactive location visualization and route planning
- Implemented user review system improving platform engagement metrics within first month
- Technologies:** React, Django, PostgreSQL, Google Maps API

TECHNICAL ACHIEVEMENTS

DevFest Algiers 2024 Hackathon

1st Place Winner

2024

- Led 4-member team developing **IT-Config** - network optimization solution in 72-hour competition
- Built **Docker-based** system simulating network topologies with reinforcement learning optimization
- Implemented ML model using **OpenAI Gym** for automated bandwidth allocation
- Presented technical solution to industry panel including representatives from major tech companies
- Technologies:** Docker, Python, OpenAI Gym, Network Simulation, Machine Learning

CSE Coding Contest 2025

Winner

2025

- Solved 6 algorithmic problems (hard/medium difficulty) in 4-hour time constraint
- Applied advanced **Dynamic Programming** techniques using Python and C++
- Led problem-solving strategy for 3-member team under competitive pressure
- Demonstrated algorithmic thinking and optimization skills in time-critical environment

School of AI Club Datathon

1st Place Winner

2023

- Led 4-member team developing **Machine Learning solutions** for a set of data science problems
- Designed multiple **machine learning models** addressing diverse problem sets
- Applied advanced **data analysis and feature engineering** techniques for optimal model performance
- Presented technical solutions demonstrating expertise in data science methodologies and model optimization
- Technologies:** Machine Learning, Deep Learning, Python, Data Science, Statistical Analysis

LEADERSHIP & ACTIVITIES

Sport and Entertainment Club, ESI Algiers

Vice President

2023–2024

- **Organized** 12+ campus events with 100-500 attendees each, improving student engagement by 50%
- **Managed** \$5,000 annual budget and coordinated partnerships with 15+ student organizations

GDG Algiers

Developer Contributor

2022–2024

- Coordinated 5+ technical workshops with **300+ total participants**, focusing on web development
- Developed reusable web components using **React** in collaborative team environment

EDUCATION

Higher National School of Computer Science (ESI Algiers)

Master's & Engineering Degrees in Software Engineering

Expected July 2027

- **Bachelor's Degree Equivalent:** Computer Science (3 years) - **Completed 2025**
- **Current Studies:** Pursuing Master's and Engineering degrees in Software Engineering (Advanced curriculum)
- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Operating Systems, Software Engineering, Web Development, Object-Oriented Programming, Computer Networks, Advanced Software Architecture, Distributed Systems
- **Notable Academic Projects:**
 - **SciPaper Search Engine:** Semantic search platform using **Elasticsearch, Django, and React** for academic paper discovery
 - **Desktop Task Planner:** Java-based productivity application with GUI and database integration
 - **Network Labs:** Configured network services on **CISCO Packet Tracer**, implemented network protocols and routing configurations
 - **Computer Architecture & Multi-threading Labs:** Developed parallel processing applications using **C OpenMP threading**, optimized CPU cache utilization and memory management

KEY PROJECTS

- **Wego** - Enterprise SaaS Automation Platform (**Team Lead**)
 - Built RPA based automation system integrating Odoo ERP with Alfresco GED
 - Developed Next.js front-end with Supabase backend handling enterprise workflow automation
 - Led 3-developer team implementing complex business logic for document processing
 - **Tech Stack:** Next.js, Supabase, Odoo, Alfresco, RPA, N8N.
- **Himma** - Social Motivation Platform (**Full-Stack Developer**)
 - Created MERN stack application with integrated LLM chat-bot for user engagement
 - Implemented real-time story sharing, user authentication, and content moderation
 - Developed AI-powered recommendation system for personalized content delivery
 - **Tech Stack:** MongoDB, Express.js, React, Node.js, OpenAI API
- **FineLearn** - AI-Powered E-Learning Platform (**Full-Stack Developer**)
 - Built responsive learning management system with AI-generated financial literacy courses
 - Implemented progress tracking, quiz systems, and user dashboard with React
 - Integrated Django REST API with MySQL for content management and user data
 - **Tech Stack:** React, Django, MySQL, AI Content Generation
- **SciPaper** - Semantic Search Engine (**Team Developer**)
 - Built semantic search platform processing academic papers with advanced NLP techniques
 - Implemented **Elasticsearch** indexing and ranking algorithms for research document discovery
 - Integrated **LLM-powered** abstract summarization and keyword extraction features
 - **Tech Stack:** Elasticsearch, LLMs, Django, Python, Natural Language Processing
- **Axio** - Logistics Optimization Software (**Team Developer**)
 - Developed logistics optimization platform using **reinforcement learning** for route planning
 - Built responsive dashboard with **Next.js** for real-time workflow monitoring and analytics
 - Implemented **OpenAI Gym** environment for training optimization algorithms on industrial data
 - **Tech Stack:** Next.js, MySQL, Gym (RL), Reinforcement Learning, Industrial IoT
- **Cuby** - 2D Platformer Game (**Solo Developer**)
 - Developed complete 2D platformer game using Unity with custom sprite artwork
 - Implemented physics system, level progression, and character movement mechanics
 - Created all visual assets using Photoshop with custom animations and UI design
 - **Tech Stack:** Unity, C#, Photoshop, Game Physics