

# MERATI Ali Ouala Eddine

## Full-Stack Developer & Project Manager

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## Profile

Applied Mathematics student at the National Higher School of Mathematics with hands-on experience in full-stack development, project management, startup operations, AI workflows, and client delivery. I build digital products that combine front-end craft, structured backend logic, production-minded execution, and clear product thinking. Built multiple production-style event platforms for NHSM student clubs, delivered 10+ client/prototype projects, coordinated teams of up to 8 members, and worked as Co-Founder / COO of a startup incubated by Algeria Telecom.

## Core Impact

<b>10+ projects</b>	Websites, dashboards, prototypes, event platforms, and product experiences	<b>3 event systems</b>	Escape Room, TWISB 2, and V-ROAM platforms for NHSM student events
<b>8-member team</b>	Coordinated planning, follow-up, logistics, and execution workflows	<b>1st + 3rd place</b>	Won Arcade Event and placed 3rd in CodeLemma algorithmic hackathon

## Experience

### Independent Full-Stack Developer | Client Projects

2025 - Present

Algiers, Algeria

- Designed and delivered websites, landing pages, admin workflows, dashboards, and digital product prototypes for 10+ clients, clubs, and prospects.
- Managed projects end-to-end, including planning, UX direction, implementation, deployment, iteration, and client communication.
- Built responsive, conversion-aware interfaces with focus on clarity, maintainability, storytelling, and production delivery.

### IT Member | Eureka Club

Sep 2025 - Present

Algiers, Algeria

- Contribute to technical club activities with a focus on web development, digital execution, and student initiatives.
- Developed event operations platforms for Eureka Club, including Escape Room 2nd Edition and TWISB 2 scoring workflows.

### Co-Founder / COO | Fennix Academy

Jun 2025 - Jan 2026

Algiers, Algeria

- Managed operations and execution for an early-stage startup incubated by Algeria Telecom.
- Coordinated workflows, delivery, partnerships, outreach, internal organization, and product direction.

### Project Management Department Head | Mobius Club

Mar 2025 - Oct 2025

Algiers, Algeria

- Led planning and execution across 4 events with a team of 8 members.
- Managed logistics, coordination, follow-up, and event structure from Mathurance to Math League and other smaller events.
- Introduced lightweight tracking systems and checklists to improve execution reliability.

## Selected Product, Event & Client Projects

### Escape Room 2nd Edition Operations Platform

Next.js 16, React 19, TypeScript, Neon Postgres, Drizzle ORM, Better Auth, Resend, Zod, Vitest, Playwright, Vercel

- Built a production-style event platform for Eureka Club at NHSM with public event pages, registration flow, and role-gated team, organizer, admin, and owner portals.
- Implemented backend-enforced room-session timing, scoring locks, owner overrides, audit logging, staff provisioning, operational emails, and test coverage.

### V-ROAM - Five to Five Hackathon Platform

Next.js 16, TypeScript, Tailwind CSS v4, Three.js, GSAP, ScrollTrigger, Supabase-ready architecture

- Built an official tri-disciplinary hackathon platform with animated landing page, 72-hour agenda, countdown, cinematic preloader, 3D telecom tower, and multi-step squad registration.

### TWISB 2 Scoring Platform

Next.js 16, TypeScript, Neon PostgreSQL, Drizzle ORM, Tailwind CSS, jose, bcryptjs, Vercel

- Built an organizer-facing scoring system with admin login, team/game management, score matrix, projector-ready live leaderboard, final lock, CSV export, rate limits, and smoke checks.

### Ouala Portfolio Platform

Next.js 16, React 19, GSAP, Lenis, Three.js, Supabase, Zod, custom CSS architecture

- Built a bilingual, design-led portfolio with dynamic case studies, custom visual scenes, server-side contact/testimonial submission, theme/language switching, and motion capability gating.

### ThinkCare Microfrontend Frontend Task

Next.js App Router, React 19, TypeScript, Tailwind CSS, Turborepo, pnpm workspaces, shadcn-style UI

- Built a presentation-ready microfrontend monorepo implementing auth, marketplace, onboarding, and product-listing areas from Figma with independently runnable apps and shared UI packages.

## Prof. Maamar Benbachir Academic Website

Next.js, React, Supabase, admin workflows

- Built an academic website with maintainable admin workflows for publications, teaching modules, resources, profile content, and calm public information architecture.

## Client & Outreach Prototype System

Next.js, React, Three.js, Framer Motion, Lenis, Dashboard UI, Vercel

- Shipped outreach-ready prototypes and brand experiences including Palma Meuble, Innoest Company, Saadi, Rihane, Benaissa, Samir Djerman, Xavier Buff, and reusable event baselines.

## EduPath Course Explorer

Next.js, React, Supabase, responsive dashboards

- Built a guided education platform helping students compare academic paths, requirements, resources, and progression choices through clear responsive dashboards.

## ASCII Art Generator

React, Vite, Tailwind CSS, Canvas API

- Built an interactive image-to-ASCII tool with real-time rendering, customization controls, and HTML, PNG, and text export options.

## AI, Data & Technical Projects

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### ENSIA RAG System - First Place, Arcade Event by Skill&Tell; Club

RAG pipeline, data cleaning, retrieval evaluation

- Built a retrieval-augmented generation system about ENSIA after collecting, cleaning, and indexing data for competition use; achieved 80.0% retrieval hit@5 and 78.0% estimated grounded accuracy.

### ALvoix - Algerian TTS Platform

FastAPI, Next.js, Torch, Chatterbox TTS, PostgreSQL, Redis, Auth0, Azure deployment docs

- Built a Windows-first TTS MVP architecture with Python backend, Next.js frontend, model-serving workflow, API auth, queue/rate-limit design, and Azure production runbooks.

### Darija TTS Data Cleaning Pipeline

Python, WhisperX, dataset tooling, QC reporting

- Built a reproducible workflow for WhisperX alignment, segmentation, validation, QC metrics, and packaging of a Darija TTS dataset with 940 validated segments.

### Agario RL Experiment

Python, PPO, Torch, Raylib, deterministic simulation

- Built an Agar.io-style reinforcement learning lab with shared PPO policy, deterministic world simulation, Raylib observer cockpit, human-play mode, evaluation scripts, and report assets.

### Conway's Game of Life

Rust, minifb, custom framebuffer

- Built a desktop cellular automata simulation with toroidal grid logic, fixed-step updates, and software framebuffer rendering.

## Education

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<b>National Higher School of Mathematics</b> Applied Mathematics	Sep 2024 - Present
<b>Hardi Mouhamed High School</b> Mechanical Engineering	2021 - 2024

## Technical Skills

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<b>Programming Languages</b>	JavaScript, TypeScript, Python, Rust, Dart, C, HTML, CSS, SCSS
<b>Frontend &amp; Motion</b>	React, Next.js, Astro, Vite, Tailwind CSS, GSAP, Three.js, Lenis, Framer Motion, responsive UI, UI/UX
<b>Backend &amp; Data</b>	FastAPI, Supabase, Firebase, REST APIs, Zod, PostgreSQL, Neon, Drizzle ORM, Redis, relational database fundamentals
<b>AI / Data / Automation</b>	n8n, workflow automation, prompt engineering, RAG, WhisperX, Torch, TensorFlow, NumPy, Jupyter, reinforcement learning experimentation
<b>Testing &amp; Delivery</b>	Git, GitHub, Vercel, Playwright, Vitest, VS Code, Cursor, Azure deployment documentation
<b>Design Tools</b>	Figma, Photoshop, Illustrator, After Effects, Premiere Pro, visual identity, design systems
<b>Operations</b>	Project management, startup operations, team coordination, event planning, logistics, execution systems
<b>Languages</b>	Arabic - Native; English - Upper-Intermediate; French - Basic reading and understanding

## Recognition & Certificates

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- First Place, Arcade Event by Skill&Tell; Club - built an ENSIA RAG system with 80.0% retrieval hit@5 and 78.0% estimated grounded accuracy.
- Third Place, CodeLemma Hackathon by Finmatics Club at the National Higher School of Mathematics - algorithmic problem solving around the Prisoner Lemma.
- Certificate of Participation, Python for AI: From Fundamentals to Advanced Models - NHSM AI House, May 2026.
- Certificate of Honor as Project Manager during the Mathurance Hackathon, February 2025.
- Certificate of Appreciation for contribution to ALMO 2025.
- Certificate of Appreciation for support in the IMM program launch with Eureka Club.
- Certificate of Appreciation for participation in QuickQuest, April 2025.
- First Place, Eureka Rubik's Cube Competition, April 2025.