Sid Ahmed MAARADJI

AI & Full-Stack Engineer

AI systems / Product engineering / Automation / Data science

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Profile

Engineer building complete web and AI systems, from product interfaces and data models to agents, automation and deployment. Master's graduate in Applied Statistics and Probabilities, with experience across public-sector workflows, education, healthcare and B2B products.

Professional experience

AI & Full-Stack Engineer 2025 - Present
Synped | Algeria

- Build and deploy client platforms for public-sector, education, engineering and B2B workflows.
- Ministry of Finance: developed a Strategic Indicator Dashboard with monthly and annual views, comparisons, action plans, exports and AI analysis; built an AI Information Day platform with QR-code registration.
- Built Synped's training platform with 41 courses across 11 domains, scheduling, and an n8n AI agent spanning WhatsApp, Telegram, email and web chat with local Ollama/Mistral inference.

Data Management & Digital Preservation Specialist 2025
Ministry of Housing, Urban Planning and the City | Algiers

- Organized physical and digital archives; contributed to digitization and long-term preservation while applying data-governance policies and secure-access requirements.

Data Scientist - Clinical Respiratory Data Analysis 2024
Rouiba Hospital | Algiers

- Modeled respiratory datasets using R and Python and developed predictive models to identify early complication risks.

Technical skills

Product and web. TypeScript, JavaScript, React, Next.js, Node.js, Tailwind CSS, Vite, Supabase, PostgreSQL, REST APIs, PWA, multilingual interfaces and Arabic RTL.

AI and intelligence. LLM applications, agents, RAG, embeddings, vector search, OCR, transcription, structured extraction, Claude API, Gemini, Groq Whisper, Ollama, Mistral, Open WebUI.

Automation. n8n, Python, web scraping, webhooks, scheduled workflows, GitHub Actions, Google Apps Script and API integrations.

Data and statistics. Python, Pandas, NumPy, scikit-learn, R, SQL, statistical inference, regression, Markov chains, forecasting, predictive modeling, Power BI, Matplotlib, Seaborn, Excel.

Infrastructure. Linux, Docker, Docker Compose, VPS, SSH, Nginx, Apache, PM2, Git, CI/CD, Vercel, Netlify, Cloudflare Workers, Windows Server, Hetzner.

Education

Master in Applied Statistics and Probabilities 2024
USTHB, Algiers | Graduated with honors

Bachelor in Applied Mathematics 2022
USTHB, Algiers

Languages and additional information

Arabic: native | French: fluent | English: intermediate

Military service: exempted. Strengths: analytical thinking, clear communication, collaboration and time management.

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Project portfolio

Selected systems and projects

AIDI Academy & Lab | Client work

Next.js, Supabase, Bunny Stream, Resend

- Approximately four to five months of solo product and engineering work connecting a public website, a learning academy and a production workspace.
- Academy: learning paths, workshops, live sessions, certifications, payments and support. Lab: case submission, STL/DICOM files, validation, approvals, production, tracking and delivery, with role-based access and manual Algerian payment validation.

SOUK-AI | Actively developed

Next.js 14, Supabase, Python, GitHub Actions, Groq Whisper, Gemini 2.0 Flash, Tavily, Vercel

- Algerian wholesale price intelligence: scheduled source collection twice daily, tracking 100+ products across 16 categories with autonomous source discovery.
- Pipeline spans classification, video transcription, OCR, structured extraction, Darija product naming, old-centime currency normalization, product matching and database storage.

Public web platforms

ANAA. Training programs, applications, calendar and learner workflows.

APMA. Training, certification, events and research, French/Arabic RTL and an AI inquiry assistant.

BioPure. B2B pharmaceutical ordering, invoices, receivables, credit limits and claims; demo data in public preview.

Institut International. Executive-training applications, calendar and learner space.

ENP-ETC. Engineering services, industrial sectors, continuing education and service requests.

MEEGET 2027. Conference registration, paper submission and international scientific-event information.

MB Dental Clinic. Appointments, bilingual content, treatment information and SEO.

Synped. Training catalogue, scheduling and participant communication.

Djaiz Hosting. Hosting portal, payments, invoicing and AI support on a self-managed Hetzner server.

Additional engineering work

Institutional AI and automation. Registration and QR pipelines, invoice PDF extraction, expense categorization and French management-note generation. Local Ollama/Mistral inference; Node.js/PostgreSQL on Windows Server with Nginx and PM2. Institution confidential.

Higher-Education ERP. iDempiere domain modeling: students as business partners, enrollments as sales orders, Arabic/French support and institutional constraints.

Personal portfolio. Next.js 15, next-intl and Zod-validated MDX content, with English/French/Arabic interfaces, native RTL composition and a Cloudflare Workers deployment configuration.

Commerce and research. HM Tapis: Shopify tracking fixes, confirmed-order uploads, Google Apps Script and E-com Delivery API integration. MDL: wholesale phone-accessories context. Statistical modeling project (2023): large-scale exploration, visualization and predictive analysis.

Architecture and product concepts

CodeQuest: coding education with multi-role learning, offline/PWA support and an AI mascot. NexERP: DDD, CQRS, event sourcing, multi-tenancy and Algerian fiscal context. RepoSage: codebase-aware AI review. Agentic Business Platform: orchestrated business agents. Design and specification work.