CONTACT

Algiers, Algeria
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Born 21 Dec 2003 in Zeralda (Algiers)
Algerian nationality

LANGUAGES

Arabic: native
French: B2
English: B2

SKILLS

AI and data

Python, PyTorch, OpenCV, YOLOv8, deep learning, computer vision, LLM/RAG, LangGraph, SQL, PostgreSQL, MongoDB

Development

TypeScript, JavaScript, React, Next.js, NestJS, FastAPI, Laravel, Prisma, API REST

Systems and delivery

Kafka, Temporal, WebSockets, Docker, Git, JWT, CASL, embedded systems (ARM, STM32)

CERTIFICATIONS

CCNAv7 : Introduction to Networks
Cisco Networking Academy, IUT de Valence, Université Grenoble Alpes, Jul 2023

PATHOS
12 weeks: public speaking, debate and communication, Sep 2024

Samir Akram OUNIS

AI and software engineer, from embedded systems to medical imaging: from sensor to model, from model to production. Computer vision (thesis on prostate lesion detection), LLM agents in an enterprise setting, web platforms delivered to clients.

EDUCATION

2024 – 2026 **Master's in Intelligent Computer Systems Engineering** · University of Algiers 1
Degree awarded 30 Jun 2026. Overall average 13.61/20 (19th/109), M2 16.17/20. Final-year thesis 17.75/20.

2022 – 2024 **Licence (Bachelor's) in Mathematics and Computer Science, specialisation Autonomous Systems and Ambient and Mobile Software – AI** · Numidia Institute of Technology, Algiers
Degree awarded 31 Jul 2024. Year 3 average 14.18/20 (3rd/11). Final-year project 18/20 (IoT monitoring of a fish farm). Deep learning 18.60/20.

2021 – 2022 **Licence 1 Mathematics and Computer Science** · University of Algiers 1

2021 **Baccalauréat, Mathematics track, mention Bien (honours)** · Lycée Toufik Bouatoura, El Biar (Algiers) · average 15.11/20

PROFESSIONAL EXPERIENCE

06 – 07/2026 **Data science intern** · Djezzy, Algiers (Data Science Immersion Program 4)
Technical lead within a team of five on a multi-agent BI copilot (see Projects).

12/2025 – 06/2026 **Freelance software engineer** · nightbyte, remote
Sole engineer on the Shohraty platform and nightbyte's showcase site, from analysis to deployment (see Projects).

05 – 11/2025 **Software engineer** · SARL Expertic, Algiers
Production management platform for small businesses: bank requests, tickets, inventory (Next.js, NestJS, Prisma, JWT/CASL).

06/2024 – 03/2025 **Software development consultant** · White Bay Limited, Algiers
CRM/ERP features (React, TypeScript), YOLOv8 pipeline for defective product detection. Supervised two interns on a computer vision project.

03 – 06/2024 **Software engineering intern** · White Bay Limited, Algiers
RAG assistant based on Llama 2 (React, Laravel, text and voice modes).

PROJECTS

Computer vision and medical imaging

2025 – 2026 **PathOS: prostate lesion detection** · Master's thesis, in a pair · Project details
Whole-slide histology images: Virchow2 embeddings (HistoEncoder as control), artifact filtering, TransMIL aggregator (CORAL ordinal loss), attention maps. PANDA: QWK 0.9227 in five-fold cross-validation; ISUP ≥ 2 sensitivity 92.6% on the fixed test split; QWK 0.877 on SICAPv2 (external). Research prototype, not clinical.

2024 – 2025 **Firmatech : Smart Aquaculture AI** · Junction Algiers hackathon, team project · Project details
Fish-farm monitoring: fish counting, biomass estimation and disease detection (YOLOv8, OpenCV, FastAPI); simulated sensor data. Hackathon contribution: AI modules, data analysis, testing. Earlier, in the separate Licence final-year project: the fish-detection model and a first IoT prototype.

2024 – 2025 **Automatic coin counting** · computer vision lab, in a pair · Project details
Classical vision pipeline, no learning: Otsu thresholding, connected components, circularity filters, Tkinter interface.

Applied AI and software engineering

2026 **Djezzy Commercial Copilot** · internal project · Project details
Multi-agent assistant querying 13 months of daily commercial data: validated text-to-SQL (sqlglot), Temporal/LangGraph workflow, Kafka, WebSockets, pgvector memory, live charts.

2026 **Shohraty** · client: marketing agency, Algiers · Live site
Trilingual platform (Arabic RTL, French, English): Next.js site, back office, NestJS API with 147 endpoints, PostgreSQL/Prisma. Sole engineer; in production on the client's server: TTFB 87 ms, LCP 1.02 s.

LEADERSHIP AND AWARDS

- Founder and president of NIT Computer Society (Apr 2023 – Jun 2024), team of 20+ members; organised the NCS Hack hackathon (25 May 2024). Club account: instagram.com/ncs._club (4,800+ followers). Mentor at the Ignite ideathon (22 Feb 2025).
- 2nd place, Tatweer Hackathon 2025 (SynexFlow AI, team). 3rd place, Ideatech3 (20 Apr 2024).
- Event organiser, GDG and WTM Algiers (2022/2023 season). Project lead, Digital Blue Hack, EU-funded Blue Economy Programme.