

SAMIR AKRAM OUNIS

AI & SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

AI Engineer and Full-Stack Developer specializing in AI-powered solutions and user-focused interfaces. Proficient in building and deploying machine learning models, including computer vision systems using YOLOv8 and chatbots powered by LLMs. Skilled in developing scalable backend services and responsive, user-friendly frontend applications using React and TypeScript. Adept at integrating AI technologies with robust system architecture and intuitive UI/UX design to deliver end-to-end solutions.

WORK EXPERIENCE

Software Engineer

May 2025 – Nov 2025

Expertic

- Designed and built the complete system architecture and infrastructure for a Service Management Platform handling ITM intervention, installation, and replacement operations.
- Built and configured the full cloud infrastructure on Djezzy Cloud, including deployment of Mattermost, GitLab, and internal management tools.
- Developed and deployed a TPE Ticket Management system to manage TPE devices, service tickets, and operational workflows.

Deep Learning Engineer & Frontend Developer

June 2024 – March 2025

White Bay Limited

- Created an AI-powered quality assurance system using YOLOv8 to detect defective products in real-time, improving production accuracy and reducing error rates.
- Enhanced the functionality of CRM and ERP platforms for major international companies by developing custom frontend features using React and TypeScript, improving user experience and system efficiency.
- Integrated Agents and Conversation History functionalities into the chatbot system.
- Supervised two interns in developing a safety detection system that utilized computer vision and deep learning models, resulting in a more efficient and reliable safety monitoring process.

Intern

March 2024 – June 2024

White Bay Limited

- Developed a virtual assistant chatbot utilizing Large Language Models (LLMs) such as Llama 2 for a specific company.
- Designed the user interface of the platform using Figma, ensuring a user-friendly and visually appealing layout.
- Developed the front-end of the platform using React.js and TailwindCSS, focusing on responsive design and performance.
- Worked on the backend using Laravel, implementing robust and scalable server-side logic.
- Integrated the Llama 2 model trained with Retrieval-Augmented Generation (RAG) into the platform for enhanced chatbot capabilities.
- Implemented text-to-text, voice-to-text, and voice-to-voice functionalities for the chatbot, enhancing user interaction options.

EDUCATION

Master's in Intelligent Computer Systems Engineering (ISII) Sep 2024 – June 2026
University of Algiers 1 - Ben Youssef Ben Khadda

- Focus areas: AI & Deep Learning, Software Engineering, Intelligent Systems
- Design and deploy intelligent models for real-world tasks
- Build scalable, ML-integrated systems
- Apply data and optimization for adaptive solutions

Bachelor (Licence) in Autonomous Systems and Embedded Ambient Oct 2023 – June 2024
Numidia Institute of Technology

- Developed a smart fish farming system using IoT and AI for final project
- Studied Embedded systems (STM32) and microcontroller programming in C
- Studied Computer Vision (OpenCV), NoSQL databases (MongoDB)
- Studied Machine Learning, Deep Learning, and Mobile Development in Flutter

Computer Science Sep 2022 – June 2023
Numidia Institute of Technology

- Studied Computer Architecture, Information Systems, and Object-Oriented Programming
- Studied Networking and Network Protocols; obtained CCNA Certificate
- Studied Web Development and MySQL Database

Math and Computer Science Sep 2021 – June 2022
University of Algiers 1 - Ben Youssef Ben Khadda

- Studied foundations of computer science: algorithms, analysis, and algebra
- Studied statistics and probability

Baccalaureate in Mathematics Sep 2020 – June 2021
Toufik Bouatoura High School

- Passing Grade: 15.11
- Professional swimmer since age 11

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Founder & President Apr 2023 – June 2024
NIT Computer Society Club

- Managed a team and an organization of over 20 people
- Organized a 3-day hackathon called NCS Hack with over 100 participants
- Organized startup exchanges and an Ideathon called Enigma with over 100 participants
- Organized a hackathon called Arena Challenge with over 60 participants
- Successfully organized boot camps in Artificial Intelligence, Web and Mobile Development, and Git/GitHub with over 100 participants
- Managed and developed a team of 5 to create landing pages for Enigma and NCS Hack events

Member Jan 2023 – Present
Google Developer Group Club

- Part of the website development team for Devfast 2023
- Served as an organizer for the GameJam event
- Contributed to the web design UI & UX team for developing the member management system

Co-founder & Event Manager
Open Source Club

Jan 2022 – Apr 2022

- Successfully laid the foundation of the OS Club

TECHNICAL SKILLS

AI & Machine Learning: YOLOv8, LangChain, Agno, Huggingface LLMs, Computer Vision (OpenCV), Deep Learning (TensorFlow, PyTorch)

Web Development: React.js, TypeScript, Next.js, TailwindCSS, Node.js, Express.js, NestJS, Laravel

Databases: MySQL, MongoDB, PostgreSQL

Embedded Systems: STM32, C Programming

Tools & Software: Visual Studio Code, Visual Studio, STM32CubeIDE, Postman, Git & GitHub, Docker, Figma, Pack Office, Canva, Obsidian, Notion, Trello, Jira

SOFT SKILLS

Efficiency Under Pressure, Critical Thinking, Effective Time Management, Creative Problem-Solving, Active Listening, Public Speaking

AWARDS & ACHIEVEMENTS

- 2nd place winner among 18+ teams in a 4-day national hackathon called Tatweer, hosted by Micro Club
- Awarded Best Potential Startup for bachelor's degree graduation project
- 3rd place team in the Ideatech ideathon competition among 15 teams
- 3rd place in the National Swimming Competition in the 200m Butterfly event

LANGUAGES

Arabic: Native | **English:** Fluent | **French:** Intermediate

INTERESTS

Swimming (Ex-professional swimmer), Sports, Volunteer Work, Competitions (Hackathons, Ideathons), Particulate Matters, Developing Projects