LEBAILI Mohamed Ouail

Contact
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Technical skills
Languages: Python, JavaScript (ES6+), C/C++, Java, SQL
Web: Next.js, React, MERN
Backend/DBs: Node.js, Express, Django, PostgreSQL, MongoDB
Cloud/DevOps: Oracle OCI (certified), Docker, CI (GitHub Actions)
AI/ML: PyTorch, TensorFlow, scikit-learn
Embedded/IoT: Raspberry Pi, Arduino (Wokwi), MQTT
Tools: Swagger, Postman, Git, Docker

Languages (human)
Arabic — Native
French — Proficient
English — Proficient

Certifications & Awards
- Coursera Machine Learning Certificate By Stanford University
- Oracle Cloud Infrastructure 2025 Certified Architect Associate (exp. 29 Oct 2027)
- Winner — SecAI Datathon 2024

Professional summary

Computer Systems Engineering student (ESI-SBA) with practical experience in embedded systems, IoT telemetry, real-time systems, full-stack web development and applied ML. I design end-to-end solutions — firmware, simulation, backend services, dashboards and ML analytics. Experienced in datathons and internships; strong collaborator and open-source contributor.

Education

Higher School Of Computer Science Sidi Bel Abbes (ESI)　　Sep 2023 – Present
State Engineer & Master's Degree — Computer Systems Engineering (ISI)
Relevant coursework: Computer Networks, Embedded/IoT, Real-Time Systems, Cloud, Advanced AI, ML, Cybersecurity.

Higher School of Computer Science (Preparatory Cycle)　　Sep 2021 – Jun 2023
Preparatory cycle in Computer Science
Data Structures, Algorithms, OOP, Computer Architecture, Discrete Math.

Baccalaureate in Mathematics — With Honors　　Jun 2021
High School Diploma — Algiers, Algeria.

Experience

National Agency for the Valorization of Hydrocarbon Resources (ALNAFT)
Sep 2024
Fourth-Year Internship — Computer Science Department

- Exposed to enterprise workflows; collaborated across technical teams and departments.
- Participated in data handling, tools integration and project practices.
- Assisted in internal tooling and operational procedures.

Freelance Software Developer　　2023 – Present
Remote / Self-employed

- Delivered end-to-end software solutions: requirement gathering, design, implementation and deployment.
- Managed full development lifecycle and coordinated with stakeholders.

Selected Projects

- **AI-Powered Botnet Attack Detection on IoT Devices** — Python, PyTorch, ns-3.
Engineered time-series features and trained temporal models; improved detection F1 via feature engineering; CI-enabled reproducible experiments.

- **Raspberry Pi Face Recognition Attendance System** — Python, OpenCV, TensorFlow Lite, Django.
Deployed optimized on-device model (pruning + quantization) integrated with Django backend and dashboard.

- **School Inventory & Material Management System** — Node.js, Express, PostgreSQL, Docker.
Designed REST APIs with role-based access; Dockerized services, tests and Swagger docs.

- **Industrial IoT Machine Monitoring & Control** — MQTT, Node.js, Dashboard.
Telemetry ingestion, real-time dashboard analytics and alerting logic.

Engagements & Achievements

- President — Alphabit Club (Scientific Club) (1 year); Finance Dev teams member.
- Participated in 2 Datathons, 2 Hackathons and 1 CTF competition.
- Winner — SecAI Datathon 2024 (with Algerian Spatial Agency).