

YOUSSEF CHEBL

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Professional Profile

Engineering student specializing in **Scalable Web Architectures** and **Embedded AI**. Proven experience deploying edge-AI solutions with 90% accuracy and optimizing backend APIs for high-load environments. Seeking a Capstone Project (PFE) to leverage skills in System Design, CI/CD, and Cloud Computing.

Technical Skills

Cloud & DevOps: AWS Cloud Foundations, Docker, Kubernetes, Terraform, CI/CD (GitHub Actions), Linux.

Languages: Python, Java, C/C++, JavaScript (ES6+), TypeScript, Dart, SQL.

Web & API: React.js, Node.js, Express.js, REST API Design, HTML5, CSS3, Jest, Microservices.

AI & Data: YOLOv8, PyTorch, Computer Vision, Pandas, NumPy, Edge Computing.

Databases: MongoDB, MySQL, PostgreSQL, Firebase.

Professional Experience

KWM Manufacturing

Dar Chaabene El Fehri, Tunisia

AI & Computer Vision Intern

July 2024 – Sept. 2024

Engineered a defect detection system achieving **90% mAP**, reducing manual workloads by **15 hours/week** and boosting throughput by **7%**.

Engineered an automated ETL pipeline to ingest and normalize a dataset of 30,000+ industrial images.

Compressed YOLOv8 models by 40% using quantization to enable 25 FPS real-time inference on Raspberry Pi 5.

Visualized 5+ key performance metrics on a custom dashboard to monitor model drift and accuracy.

SOFIRUX

Nabeul, Tunisia

Full Stack Web Developer Intern

Aug. 2024

Launched a client portal serving 50+ active users, improving data retrieval speeds by 20% (approx. 200ms).

Designed 10+ secure RESTful API endpoints using Node.js/Express to handle complex data transactions.

Bolstered reliability by implementing unit testing, reaching 85% test coverage on critical backend modules.

Participated in 2-week Agile sprints, consistently delivering features on time with zero critical bugs.

DigiArt Living Lab

Tunis, Tunisia

Mobile & Plugin Developer Intern

Feb. 2023 – June 2023

Automated thermal calculations, reducing processing time from 10 minutes to under 5 seconds per room.

Developed a Revit plugin (Python) used by 5 architects to streamline complex environmental data analysis.

Built a Flutter companion app that garnered a **4.8/5.0 internal rating** for usability and feature set.

LAB619

Tunis, Tunisia

Java Developer Intern

Jan. 2022 – Feb. 2022

Delivered a **99% success rate** in test deployments by engineering a robust JavaFX updater.

Refactored 2,000+ lines of legacy code into a clean MVC architecture, improving maintainability.

Standardized the update procedure across 20+ POS terminals, reducing troubleshooting requests by 30%.

Key Projects

IoT Environmental Monitoring System | C++, MQTT, Cloud

2023

Designed a system processing 1 data point/second with 99.9% uptime and sub-second latency alerts.

Train Ticket Reservation Platform | JavaFX, MySQL

2023

Architected a desktop app managing 10,000+ records, optimizing SQL queries to reduce retrieval time by 15%.

Cross-Platform To-Do App | Android, Firebase

2023

Built a productivity app supporting 500+ concurrent tasks with Firebase sync under 100ms.

Education

National School of Engineers of Carthage (ENICarthage)

Tunis, Tunisia

National Engineering Diploma in Computer Science

Sept. 2023 – Present

Higher Institute of Technological Studies of Nabeul (ISET)

Nabeul, Tunisia

Bachelor's Degree in Information Technology

Sept. 2021 – July 2023

Graduated with Honors (Top 3 of class).

Certifications & Activities

Certifications : AWS Cloud Foundations (2025), HiveMQ MQTT Associate, Python I & II, Cisco PCAP.

Languages : English (Intermediate), French (B2), Arabic (Native).

Awards : 3rd Place (out of 15 teams) at Orange Digital Center Industry 4.0 Makeathon.