

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 <i>AI & Computer Vision Intern</i> 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.	Dar Chaabene El Fehri, Tunisia <i>July 2024 – Sept. 2024</i>
SOFIRUX <i>Full Stack Web Developer Intern</i> 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.	Nabeul, Tunisia <i>Aug. 2024</i>
DigiArt Living Lab <i>Mobile & Plugin Developer Intern</i> 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.	Tunis, Tunisia <i>Feb. 2023 – June 2023</i>
LAB619 <i>Java Developer Intern</i> 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%.	Tunis, Tunisia <i>Jan. 2022 – Feb. 2022</i>

Key Projects

IoT Environmental Monitoring System C++, MQTT, Cloud Designed a system processing 1 data point/second with 99.9% uptime and sub-second latency alerts.	2023
Train Ticket Reservation Platform JavaFX, MySQL Architected a desktop app managing 10,000+ records, optimizing SQL queries to reduce retrieval time by 15%.	2023
Cross-Platform To-Do App Android, Firebase Built a productivity app supporting 500+ concurrent tasks with Firebase sync under 100ms.	2023

Education

National School of Engineers of Carthage (ENICarthage) <i>National Engineering Diploma in Computer Science</i>	Tunis, Tunisia <i>Sept. 2023 – Present</i>
Higher Institute of Technological Studies of Nabeul (ISET) <i>Bachelor's Degree in Information Technology</i> Graduated with Honors (Top 3 of class).	Nabeul, Tunisia <i>Sept. 2021 – July 2023</i>

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.