Hammami Med Zahreddin

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PROFILE

- Computer Science student and full-stack developer exploring DevOps and ML to build scalable, automated systems. seeking a final-year internship to apply technical skills and contribute to impactful real-world projects.

EXPERIENCE

Software Development Intern — BH-Dashboard
July 2025 – August 2025

BH Bank — *Remote*

- Built a centralized dashboard MVP using Next.js, TypeScript, Docker, and Supabase to unify apps, projects, and deployments, improving visibility and decision-making.
- Created a searchable catalogue linking applications, owners, and runbooks, and added modules for project tracking, approvals, and automated EOL/contract alerts to reduce incident time and service risks.
- Collaborated with IT and product teams to validate requirements, demo features, and refine the MVP for production readiness.

PROJECTS

End-to-End MLOps Pipeline for EV Demand Forecasting
2025

- Designed a modular ML pipeline for hourly energy forecasting, automating ingestion, feature engineering (lags, rolling stats), and training of multiple models with automatic production promotion via a file-based registry.
- Deployed a Dockerized FastAPI inference service with Prometheus/Grafana observability, achieving real-time visibility into request latency and model prediction rates.
- Implemented a serverless batch inference system using S3 events and Lambda-style handlers, and established a CI/CD workflow with GitHub Actions to ensure code quality and seamless integration.

Event-Driven Kubernetes Autoscaler
2025

- Developed a Python-based controller to scale Kubernetes pods based on SQS queue message counts, providing an alternative to KEDA for a local development setup.
- Built a microservices application with Producer and Consumer services to test autoscaling logic under simulated traffic spikes, using Docker, Kind, and LocalStack for the environment.
- Set up a CI/CD workflow with GitHub Actions for linting, building Docker images, and seamless deployment to local clusters.

Ekrily — Founder & Developer
2025 – Present

- Built a real-estate platform with Next.js and Supabase linking students and property owners for long-term rentals
- Implemented secure authentication, property listings, 360 virtual tours, intelligent co-living and AI recommendations; used Tailwind CSS and Cloudinary for a responsive UI and efficient media handling.

SKILLS

MLOps & Infrastructure: Docker, Linux, GitHub Actions, LocalStack, AWS (S3, Lambda), Prometheus, Grafana, NGINX, Kubernetes, Terraform

Machine Learning & Data: Python, Scikit-learn, XGBoost, LightGBM, Pandas, NumPy, Matplotlib, Seaborn, Parquet

Backend & Data Stores: FastAPI, PostgreSQL, Supabase, SQL

Tools: Git/GitHub, Visual Studio Code, Figma

EDUCATION

Bachelor's Degree in Computer Science
2023 – Present

Higher Institute of Computer Science — *Ariana*

LANGUAGES & CERTIFICATIONS

Languages: Arabic (native), English (fluent), French (professional proficiency)
Certifications: CCNA 1 – Introduction to Networks (2025) [View Certificate]