

Mortada Houmani

Backend Engineer

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SUMMARY

Computer Science student focused on backend development, with hands on experience building APIs, working with databases, and deploying cloud-based services. Comfortable designing application logic, structuring data models, and integrating backend systems with cloud infrastructure.

EDUCATION

Computer Science

Lebanese University

09/2024 – Present

Nabatieh, Lebanon

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Kailyra Foundry

04/2026 – Present

- Developing a sports ecosystem platform using **NestJS** and **React**.
- Building backend APIs and application features to support users, sports related data, and platform workflows.
- Collaborating on frontend and backend development, debugging issues, and improving application functionality.

SKILLS

Backend:

NestJS, Express.js, REST APIs, TypeORM.

Databases:

PostgreSQL, Redis, SQL, MongoDB.

Programming Languages:

TypeScript, JavaScript, Python, Java, Bash.

Cloud & DevOps:

AWS, Docker, Kubernetes, Terraform, Ansible, GitHub Actions, CI/CD, Linux.

Frontend:

React, JavaScript, TypeScript

Soft Skills:

Self-Learning, Problem Solving, Attention to Details

PROJECTS

Kereo, Mini Deployment Platform 🔗

Built a platform for deploying containerized apps to AWS ECS, with repo connection, Docker build setup, environment variables, deployment triggers, and logs/status tracking.

Tech: NestJS, React, TypeScript, PostgreSQL, Redis, BullMQ, Docker

AWS: ECS, ECR, CodeBuild, ALB, CloudWatch, SSM, RDS, ElastiCache, Terraform, GitHub Actions

CostLens, AWS Waste Detector 🔗

Built CostLens that helps teams reduce cloud waste and risk by identifying unused, exposed, or misconfigured AWS resources before they become costly or insecure.

Tech: NestJS, React, PostgreSQL, Redis, BullMQ, Docker, Terraform, GitHub Actions, AWS ECS/ECR, S3, CloudFront, AWS SDK.

Secure K8s Ops Lab 🔗

Built a secure Kubernetes operations lab on AWS using Terraform, Ansible, k3s, Traefik, Prometheus, and Grafana.

Tech: AWS EC2, Terraform, Ansible, k3s, Kubernetes, Helm, Traefik, Prometheus, Grafana, RBAC, NetworkPolicies

AWS Terraform Fullstack Todo App 🔗

Built a full-stack todo app and provisioned its AWS infrastructure with Terraform containerizing the backend on ECS Fargate, using RDS and S3/CloudFront, and automating deployments via GitHub Actions CI/CD

Tech: NestJS, React, PostgreSQL, Terraform, AWS ECS, ECR, RDS, S3, CloudFront, GitHub Actions, Docker

LANGUAGES

• Arabic: Native

• French: Basic

• English: Conversational