Abdelrahman Darwish

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Cairo, Egypt

Education

Ain Shams University — Cairo, Egypt
Bachelor of Computer Science — *2023 – 2027*

Experience

Ejada — Aug 2026 – Sep 2026
Cloud Engineer Intern — *Cairo, Egypt*
- Engineered multi-tier cloud infrastructure using **Terraform (IaC)** on **Oracle Cloud Infrastructure (OCI)**, automating secure VCN segmentation, route tables, and dynamic data lookups.
- Deployed scalable application architectures with **Application Load Balancers (ALBs)**, private compute instances, and **OCI File Storage Service (FSS)** mounted over NFS.
- Automated environment bootstrapping and app deployments using **cloud-init** scripts, containerizing services via **Docker** and deploying to **Kubernetes / OKE**.

Orange Business — Jun 2025 – Aug 2025
UC & Cloud Intern — *Cairo, Egypt*
- Applied **ITSM** concepts (incident, problem, and crisis management) within a real-world enterprise environment.
- Developed understanding of **networking systems**, covering **OSI model**, **WAN/SD-WAN**, and enterprise protocols.
- Gained exposure to **cloud fundamentals**, including **IaaS platforms**, virtualization, and **SLA-based service delivery**.

Ministry of Communications & IT (DEPI) — Apr 2024 – Oct 2024
Frontend Development Professional Program — *Cairo, Egypt*
- Completed 6-month intensive training focused on **Angular**, **TypeScript**, and **JavaScript** using **Clean Code** principles.

Projects

Baraa7 — Arabic Content & Podcast Subscription Platform | baraa7.com — 2026
- Architected a full-stack Arabic **RTL** platform with **Next.js**, **Node.js/Express**, **MongoDB**, and a server-side **paywall**.
- Integrated **Geidea** payments with idempotent webhooks, subscription stacking, and gift codes with atomic redemption.
- Built an **ffmpeg** audio pipeline to **Cloudflare R2** and **Brevo** email broadcasts; deployed via **Docker** on **Coolify**.

Hakeem — Telemedicine Platform | hakeem-med.com — 2026
- Architected a full-stack telemedicine platform using **Next.js**, **Node.js/Express**, **MongoDB**, and **Redis**, implementing **Google OAuth** with **JWT sessions** and granular **RBAC** across parents, doctors, and admins.
- Engineered end-to-end booking with **Paymob** webhook integrations, child medical profile tracking, automated **Nodemailer** confirmations, timezone-aware UTC scheduling, and auto-generated **Jitsi Meet** video links.
- Built doctor practice analytics, care plan distribution, an admin console with emergency webhook recovery, and deployed via **Docker** and **Coolify** with **GitHub CI/CD**.

Euro-Media Platform | euromediame.com — 2026
- Engineered a decoupled **RAG-based AI Chatbot** using **LangChain** to ingest unstructured catalog data for context-aware assistance.
- Built a high-performance storefront with **Redis caching** for optimized query latency and high-concurrency traffic.
- Implemented **RBAC** security, custom middleware, and **JWT Authentication** across the RESTful backend.

Operating Systems Simulation (FOS) | *C, Low-level Systems* — 2025
- Implemented custom virtual memory management including **user/kernel heaps**, page tables, and **shared memory**.
- Built **trap and fault handlers** to simulate operating system interrupt handling for memory-related faults.
- Developed a **process scheduling** subsystem with strict **concurrency control** using locks and semaphores.

Learning Management System | mrtarek-academy.com — 2024
- Developed a custom full-stack LMS with tailored backend business rules and video delivery that served **500+ active students**.

Technical Skills

Languages: TypeScript, JavaScript, C/C++, PHP, SQL, HTML5, CSS3, Arabic (Native), English (Fluent)
Frontend & Backend: React, Next.js (App Router), Node.js, Express.js, Angular, RESTful APIs, Prisma ORM
Cloud & DevOps: Oracle Cloud (OCI), Terraform (IaC), Docker, Kubernetes (OKE), Linux/Bash, Coolify, Git/GitHub
Databases & Systems: PostgreSQL, MongoDB, Redis Caching, Memory Management, Process Concurrency, Networking