

SHARQAWY WAEL

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SUMMARY

Computer & AI Engineering student who ships production systems: **Yaleeq** (internship platform for Egyptian students, 700+ users) and **Diran** (AI collaborative block editor). Experienced across full-stack, systems programming, and networking.

EDUCATION

B.Sc. Computer & Artificial Intelligence Engineering (Dual Degree) 2023 – 2027
Faculty of Engineering, Ain Shams University — Cairo, Egypt GPA: 3.4/4.0

B.Sc. Computer Science — University of East London, UK First Class Honours

PROJECTS

Yaleeq — Co-Founder & Full-Stack Developer [\[Landing\]](#) [\[App\]](#)

- Built a full-stack internship platform for Egyptian university students featuring job listings with **AI match scoring**, AI-powered CV feedback, events aggregation, and a projects showcase; includes student app, org dashboard, and admin panel using **Next.js**, **Node.js**, and **Appwrite**
- Onboarded **700+ students** and collected **200+ CVs**, with profiles built around CV targeting and AI-driven matching to guide students toward relevant opportunities

Diran — Full-Stack Developer [\[Code\]](#) [\[Website\]](#)

- Built a Notion-style **collaborative block editor** with **real-time multi-user editing** via WebSockets, AI content suggestions, team management, role-based permissions, and full-text block search using **Next.js**, **Fastify.js**, and **PostgreSQL**
- Engineered complete auth system: **JWT** access/refresh tokens, **OTP** email verification, password reset, and rate limiting

Distributed LLM Serving System [\[Code\]](#)

- Built a distributed system in **Golang** and **Python** handling **1000+ concurrent** LLM inference requests with a custom **load balancer**, agent-based auto-scaling across multiple machines, **gRPC-based** fault detection, and zero request loss on node failure

FOS — Educational Operating System [\[Code\]](#)

- Implemented **kernel memory allocator (kmalloc)** and its dependency chain in **C** from scratch within a real kernel environment based on MIT's **JOS**, running on **QEMU** and **Bochs**

Packet Pulse Protocol — Computer Networks Protocol [\[Code\]](#)

- Designed and implemented a custom **UDP-based application-layer protocol** in **Python** for IoT telemetry from scratch, featuring a **12-byte binary header**, message batching, sequence tracking, ACK handling, and loss-tolerant delivery
- Developed reproducible network experiment infrastructure including **PCAP** capture tooling, network emulation setup, and performance visualization scripts

SKILLS

Languages: C/C++, Java, JavaScript/TypeScript, Python, Go, Assembly, Shell

Frameworks: Node.js, Express.js, Fastify.js, React, Next.js, Astro, Svelte

Databases: PostgreSQL, MySQL, MongoDB, SQL Server

Tools: Git/GitHub, Docker, Linux, AWS (S3, EC2, Lambda), GitHub Actions, Vercel, Cloudflare Workers

Core Knowledge: OOP, OS Internals, Data Structures & Algorithms, Networking, Embedded Systems

EXTRACURRICULARS

- Solved **500+ problems** on **LeetCode** and completed **competitive programming training** with **Coach Academy** with exceptional performance [\[Certificate\]](#)