Yousef Alkady

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PROFESSIONAL SUMMARY

Computer Science undergraduate (expected 2028) who builds and runs live software. Lead developer of UniLink, a campus platform for 500+ verified students (React, TypeScript, Supabase, Vercel), and full-stack developer of a Next.js storefront. Hands-on IT and information security exposure from internships at Arab African International Bank and Commercial International Bank.

EDUCATION

Bachelor of Science (Hons) in Computer Science | MSA University (October University for Modern Sciences and Arts), Cairo, Egypt, awarded by the University of Greenwich, London, UK Expected 2028

EXPERIENCE

IT & Information Security Intern | Arab African International Bank (AAIB) Aug 2026 - Sep 2026

- Rotated through the IT and Information Security departments of a regulated Egyptian bank (one-month internship)
- Supported configuration, connectivity checks and day-to-day maintenance of Cisco routers, switches and network hardware
- Diagnosed and resolved IP addressing, connectivity and VPN issues, tracing faults from end-user devices to the network layer
- Introduced to penetration-testing and vulnerability-assessment tooling (Nmap, Wireshark, Metasploit, Burp Suite, Nessus) and how security teams use findings to remediate weaknesses

Summer Intern | Commercial International Bank (CIB) Summer 2026

- Completed assessments on the core banking ecosystem: retail operations, financial inclusion, customer care protocols and internal risk controls
- Analyzed digital banking transformation through evaluated coursework in AI/ML applications, advanced data analytics and enterprise cybersecurity

Partnerships Lead | Codeyssey (an initiative by Talentier) Sep 2026 - Present

- Lead partnerships for Codeyssey, a national 24-hour AI hackathon for Egyptian students and recent graduates (first edition planned for January 2027)
- Secured ElSewedy Electric and ITI as partners; in active discussions with Nokia, Huawei, Avid Beams, Valeo and other organizations
- Created the partner pitch deck, one-pager and promotional videos, defining sponsorship tiers (EGP 50K-250K+), a EGP 200,000 target prize pool and partner benefits

PROJECTS

Lead Developer | UniLink - student campus platform Feb 2026 - Present

Tech: React, TypeScript, Vite, Supabase (PostgreSQL), Tailwind CSS, Vercel, Vitest, Playwright

- Lead development of a student-only campus platform combining forums, anonymous professor reviews, private messaging, communities and events
- Onboarded 500+ verified university users through domain-restricted email authentication
- Built collaborative study tools: a notes vault (course notes, PDFs, past exams), study groups with group chat and shared notes, and a bounty system for academic requests
- Increased community contributions by 35% with a points economy, badges and tiered leaderboards; scores are calculated server-side in the database so users cannot manipulate them
- Maintain Vitest unit tests, Playwright end-to-end tests, ESLint checks and versioned Supabase SQL migrations, with CI/CD deployment on Vercel

Full-Stack Developer | Crumbs & Co - e-commerce storefront Mar 2026 - Present

Tech: Next.js, TypeScript, Tailwind CSS, Supabase

- Improved Lighthouse scores by 40% by removing render-blocking bottlenecks using server-side rendering and optimized Tailwind component trees
- Handle 100+ daily transactions with zero session errors through dynamic cart logic, secure state management and automatic session clearing after checkout
- Enforce Supabase Row Level Security policies across all user-facing database operations, with zero RLS violations in production

Off-Grid LoRa Mesh Communication - Research Project | Independent research (ESP32, LoRa, C++) 2026 - Present

Tech: C++, ESP32, LoRa, DCT, LZ4, AES

- Designing a low-power system that relays text and images hop by hop between ESP32 + LoRa nodes where there is no internet or cellular coverage
- Designed HDC-Mesh compression: a Discrete Cosine Transform pipeline for images and a deterministic LZ4 pipeline for metadata
- Wrote ESP32 firmware prototypes covering image compression, retransmission (ARQ) and AES encryption; preparing an IEEE-style research paper

Uber Distance Optimization - Data Project | Python, NumPy, Matplotlib

- Achieved 14% better route-distance prediction by implementing Haversine (curved-Earth) distance in Python/NumPy against a Euclidean baseline

Technical Integration Proposals for MSA University | Phase 2 Solutions - independent student development group 2026

- Contributed to three formal technical proposals for university IT leadership: Academic Data Synchronization & Event Webhooks, Public-Facing Academic Utilities, and an Annual Inter-University Software Hackathon Framework
- Covered proposed architecture, security protocols, DNS and infrastructure requirements, integration planning and institutional benefits (proposal stage; not implemented)

TECHNICAL SKILLS

Programming: TypeScript, JavaScript, Python, C#, C++, SQL
Web & Frameworks: React, Next.js, Vite, Tailwind CSS, REST APIs
Data & Backend: PostgreSQL, Supabase (Row Level Security, SQL migrations), NumPy, Matplotlib
Testing & DevOps: Vitest, Playwright, ESLint, Git, GitHub, Vercel CI/CD
Networking: Cisco routers & switches, TCP/IP, IP addressing, VPN, network troubleshooting
Security: Penetration-testing and vulnerability-assessment tooling (exposure), secure architecture, end-to-end encryption design, banking risk controls
Algorithms: Data structures, dynamic programming (incl. Traveling Salesperson Problem exercises)
Product & Docs: Requirements analysis, feature prioritization, technical proposals, integration planning

CERTIFICATIONS

- Commercial International Bank (CIB) Summer Internship Certificate (2026)
- NVIDIA DLI: Building LLM Applications (ITI Egypt, 2025)
- AMIT Data Science & AI: applied machine learning and data preprocessing