

Khairy Islam Shaheen

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SUMMARY

IT operations lead who designed and executed a full digital transformation for a multi-generational retail enterprise: cloud infrastructure migration (1,343 files), zero-cost federated identity with RBAC (5 groups), production e-commerce deployment, and an AI-powered enterprise chatbot – all while managing a 10+ person marketing division through a RACI accountability framework.

EDUCATION

Egypt-Japan University of Science and Technology (E-JUST)

Oct 2023 – Feb 2028

B.Sc. Computer Science & Engineering | cGPA: 3.2

Coursework: Computer Networks, Project Management, Data Structures, Probability & Statistics

EXPERIENCE

Shaheen for Import & Export

Aug 2022 – Present

IT & Operations Lead

Tanta, Egypt

Family enterprise: tire/battery import & distribution across all 27 Egyptian governorates

- Designed and executed a 4-phase enterprise cloud migration of 1,343 files into an 8-folder master Google Drive architecture with Arabic text normalization, idempotent diffing, and an isolated Security Quarantine for credentials – eliminating data silos across 4 retail branches
- Engineered a zero-cost federated identity system: cPanel IMAP/SMTP email → Google IAM (free accounts) → Google Drive RBAC, bypassing Workspace licensing for 10-20 non-technical employees while enforcing 5-tier access control (Admin/IT/Retail/Marketing/)
- Deployed a production Laravel 12 e-commerce platform (shaheentire.com) with Paymob payment integration (HMAC SHA-512 verification, cards + mobile wallets), bilingual AR/EN catalog of 519 products, and Filament 4 admin panel
- Built a WhatsApp AI chatbot (FastAPI + Gemini 1.5 Flash) enabling non-technical staff to query enterprise Drive files via natural language, with zero-trust 3-layer security architecture preventing prompt injection and unauthorized access
- Established RACI-based operational framework across 8 non-overlapping verticals (System Architecture, Social Strategy, Content, Video, Talent, Community, Paid Social, Analytics) for a 10+ person marketing division, eliminating role overlap through Gherkin-style (Given/When/Then) workflow handoff protocols
- Managed domain infrastructure: Cloudflare DNS/SSL, cPanel email aliases, Bitwarden password management, SSH deploy keys, auto-deploy pipeline, nightly server-repo drift monitoring
- Resolved a digital-adoption bottleneck by deploying cPanel webmail as a mobile PWA and creating Arabic visual SOPs for non-technical staff

Digital Egypt Pioneers Initiative (DEPI Round 5)

Jul 2026 – Present

Cybersecurity Trainee

Remote

- Simulating secure network architectures, routing protocols (OSPF, EIGRP), and defense topologies in Cisco Packet Tracer as part of an advanced cybersecurity training track

PC Building Store

Jun 2019 – Aug 2022

Technical Assistant

Tanta, Egypt

- Assembled 40+ custom PCs; diagnosed hardware/software issues; advised on cost-effective upgrades

PROJECTS

Enterprise Google Drive Architecture & RBAC System

Python, Google Drive API, cPanel

- Architected an 8-folder bilingual (Arabic/English) master directory with keyword-based content routing and Security Quarantine isolation for Postman collections, Merchant Center feeds, and credentials
- Implemented role-based access control: Admin (Global Editor), IT (Global + Security), Retail (Branch-specific), Marketing (Media folders), Sales (Viewer-only catalogs/pricing)

Windows SMB Infrastructure

PowerShell, NTFS ACLs

- Developed 7 PowerShell scripts for secure file sharing: NTLM registry configuration, ADB reverse tunneling, hidden user provisioning, share-level + NTFS-level ACL enforcement, SMB lockdown/reversal, and Windows performance optimization

Customer Ordering System (team project)

FastAPI, Docker, HuggingFace

- Contributed PII-redaction middleware, a PromptInjectionGuard, automated ticket triage, and containerized PostgreSQL to a team-built FastAPI ordering platform

TECHNICAL SKILLS

Infrastructure: Cloudflare (DNS/SSL/Security Rules), cPanel (email/hosting), Google Cloud Identity Free, Bitwarden, SSH/SFTP, SMB/NTFS ACLs, Docker Compose, ngrok

Networking: Cisco Packet Tracer (OSPF, EIGRP), Nmap/Zenmap, Windows SMB configuration, IMAP/SMTP/SSL protocols

Backend: FastAPI, Django 6, Laravel 12 (Livewire, Filament), Python automation (shutil, os, subprocess)

IAM & Security: RBAC design (5-tier), JWT (bcrypt/HS256), zero-trust API interceptors, PII redaction, prompt injection defense

Management: RACI matrices, Gherkin-style workflow protocols, Akiflow/ToDoist/Notion (integrated time-blocking)

Design: Figma, Photoshop, Illustrator, Canva