

Khairy Islam Shaheen

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EDUCATION

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

Oct 2023 – Feb 2028

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

Relevant Coursework: Data Structures (C), Advanced Programming (OOP Python), Computer Networks (CSE 328/329), Signals & Systems, Probability & Statistics, Electronics Engineering, Manufacturing Processes, Project Management

EXPERIENCE

Shaheen for Import & Export

Aug 2022 – Present

IT & Digital Operations Lead

Tanta, Egypt

- Architected and deployed a production Laravel 12 e-commerce platform (shaheentire.com) with 100+ routes, bilingual AR/EN support via Spatie Translatable, Paymob payment gateway (HMAC SHA-512 verification), Google OAuth, and Filament 4 admin panel – serving 519 products across all 27 Egyptian governorates
- Built a zero-trust WhatsApp AI chatbot (FastAPI + Gemini 1.5 Flash) with a 3-layer security architecture: environment-level phone whitelist, hardcoded forbidden-keyword interceptor (pre-LLM), and stateful per-user conversation sessions – enabling non-technical staff to query enterprise Drive files via natural language
- 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 middleware, idempotent Smart Sync diffing, and an isolated Security Quarantine for credentials and Postman collections
- Engineered a zero-cost federated identity system by decoupling cPanel IMAP/SMTP email hosting from Google IAM, achieving enterprise RBAC (5 permission groups) without Google Workspace licensing fees – deployed as mobile PWA to bypass native mail client setup friction for non-technical staff
- Established RACI-based operational framework across 8 non-overlapping verticals for a 10+ person marketing division, using Gherkin-style (Given/When/Then) workflow handoff protocols to eliminate role overlap and ambiguous task ownership
- Managed domain infrastructure (Cloudflare DNS/SSL, cPanel, Bitwarden), SSH deploy keys, auto-deploy pipelines, and nightly drift-check monitoring between server and repository

Optima Professional Services

2026 – Present

Cybersecurity Intern

Egypt

- Cybersecurity operations and practices within a professional-services environment

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 and configured 40+ custom PC builds tailored to gaming, creative, and business requirements
- Diagnosed complex hardware and software issues including thermal management, BIOS conflicts, and driver compatibility
- Advised customers on cost-effective component upgrades, driving repeat business

PROJECTS

Scentura ERP – Aeron Frontend Prototype (contributor)

Vite, React 19, TypeScript, TanStack Router, shadcn/ui,

Framer Motion

- Contributed an alternative React 19 frontend prototype (“Aeron”) – 23 lazy-loaded route modules with shadcn/ui and token-based dark/light theming – to a classmate-led, 22-app Django ERP for a perfume manufacturer
- Integrated against the system’s event-sourced inventory, FIFO batch allocation, pure-Python ridge-regression forecasting, Shopify sync, and 8-role JWT RBAC

Customer Ordering System (team project, repo owner) *FastAPI, SQLAlchemy, SQLite/PostgreSQL, Docker, React, JWT,*

HuggingFace API

- Owned the cart/checkout vertical slice of a CSE323 team e-commerce platform built on a 7-router, feature-sliced FastAPI backend (auth, cart, catalog, events, inventory, orders, payment, tickets)
- Built PII-redaction middleware (strips emails, phones, credit cards) and a PromptInjectionGuard blocking injection attempts before LLM touchpoints
- Integrated HuggingFace distilbert for support-ticket priority detection (URGENT/NORMAL); containerized PostgreSQL 15 Alpine via Docker Compose

MRL Eye State Classification – Drowsiness Detection *PyTorch, DenseNet121, CUDA 12.6, OpenCV, NVIDIA RTX 3050*

- Fine-tuned a DenseNet121 model (pretrained ImageNet) for binary classification (awake vs sleepy) on the MRL Eye Dataset – 15 epochs, Adam optimizer, NVIDIA RTX 3050 4GB VRAM
- Built a real-time webcam inference pipeline with Haar Cascade eye detection, temporal smoothing to prevent classification flicker, async inference for non-blocking feed, FPS counter, and visual + audible drowsiness alerts
- Developed 21 supporting scripts: augmentation variants, retrain iterations (v2-v4), quantization, benchmarking, and camera tests

ErgoX-UI – Gaze-Controlled Accessible Interface (contributor) *SwiftUI, ARKit TrueDepth Camera, iPhone 16 Pro*

- Contributed UI to a team SwiftUI gaze-controlled interface based on the CHI'25 “Stretch Gaze Targets Out” paper – built the contacts/messages view, media player, and playlist views
- Worked with adjustable dwell-time selection (500–1000ms, default 700ms) and the ARKit TrueDepth gaze-tracking pipeline

Bellissimo Coffee Shop – Digital Atmosphere *React 19, Vite, Tailwind v3, Framer Motion, Lenis*

- Created a “Liquid Glass” design system with glassmorphism (SVG noise overlay, backdrop-filter blur) and a Circadian Lighting Engine that auto-switches theme (Morning/Afternoon/Evening) based on time of day
- Built a multi-phase BaristaButton animation (tamping → extracting → poured) using Framer Motion keyframe variants
- Implemented 7 components: Navbar, Hero, About, MenuHighlights, CoffeeRoastRating, StoreStatus, Footer

Arduino Robotics Competition – 3 Autonomous Subsystems *Arduino C++, RemoteXY, NewPing, DHT11, MQ Gas Sensor, LDR, HC-SR04*

- Developed 3 independent robot subsystems: Bluetooth-controlled arena robot with environmental sensing (temperature/humidity/gas), LDR-based differential-drive light-seeker, and ultrasonic wall-following maze solver using left-hand rule traversal algorithm

ESP32-CAM – AI Smart Stick for Visually Impaired *ESP32-CAM, Embedded C, Computer Vision*

- Engineered an academic project for an AI-powered navigation aid with custom embedded dataset research and edge-device model optimization under memory/processing constraints

Hospital Management System (team project) *Python, Flet (GUI), SQLite*

- Top contributor (22 commits) to a 5-person Advanced Programming project; built the authentication, database layer, and admin/user dashboards
- Implemented an OOP class hierarchy (Person → Patient/Doctor/Admin), appointment scheduling with conflict detection, and invoice billing

SWE Perfume Marketplace *Express 5, MongoDB/Mongoose, JWT, Cloudinary, Jest/Supertest*

- Developed a multi-vendor e-commerce API with user/vendor/admin roles, vendor application workflow with admin approval, Cloudinary image upload pipeline, and celebrate/JoI request validation

Computer Networks Interactive Study Guide *Python (build script), Vanilla JavaScript, HTML/CSS, Web Audio API*

- Built a 4-mode offline-first SPA (Tutorial, Flash Cards, Professor’s Focus, Practice Quiz) generated by a Python script injecting 1600+ lines of JS into an HTML template
- Engineered a Pomodoro timer with SVG ring visualization, tab-visibility drift compensation, localStorage persistence across refreshes, and Web Audio API chime synthesis

NMEA Serial Radar Simulator *Python, Serial Communication, NMEA 0183*

- Generated NMEA 0183 sentences (GGA GPS fix + HDT heading) with configurable COM port/baud rate and threaded interactive lat/lon/heading control

CERTIFICATIONS & TRAINING

Cybersecurity Internship – DEPI Round 5	Jul 2026 – Present
Digital Egypt Pioneers Initiative	
Flutter Mobile App Development (72 Hours)	Jul – Oct 2025
YAT Learning Center, Tanta	
Suspension, Steering, and Wheel Alignment Training	2025
GB Academy (Ghabbour Auto), Cairo	
Full Stack Web Development (141 Hours)	Oct 2021
YAT Learning Center, Tanta	
Mastering Python Programming Fundamentals (32 Hours)	Jul 2020
YAT Learning Center, Tanta	

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, PHP, C++, C, Dart, Swift, SQL, Arduino C++, \LaTeX , MATLAB

Backend Frameworks: FastAPI (ASGI/uvicorn), Django 6 + DRF 3.17, Laravel 12 (Livewire 3, Filament 4), Express 5

Frontend: React 19, Tailwind CSS v3/v4, Framer Motion, SwiftUI, Flet, Flutter, HTML5/CSS3

Databases: PostgreSQL, SQLite, MongoDB (Mongoose), SQLAlchemy ORM, Eloquent ORM

AI/ML: PyTorch (DenseNet121, CUDA 12.6), HuggingFace Inference API, Google Gemini API, OpenCV (Haar Cascade)

DevOps & Infrastructure: Docker Compose, Git, Cloudflare (DNS/SSL), cPanel, ngrok, SSH deploy keys, SMB/NTFS ACLs

Automation: n8n workflow orchestration, Meta WhatsApp Cloud API, Google Drive API, shutil migration pipelines

Embedded Systems: ESP32-CAM, Arduino (RemoteXY, NewPing, DHT11, MQ, LDR, HC-SR04), NMEA 0183 serial protocol

Networking: Cisco Packet Tracer (OSPF, EIGRP), Nmap/Zenmap, Windows SMB infrastructure

Design: Figma, Adobe Photoshop, Adobe Illustrator, Canva, Pixlr

Productivity: Obsidian, Notion, Akiflow, Todoist, Overleaf (\LaTeX)

LANGUAGES

Arabic – Native	English – Fluent	German – A2	French – A1–A2	Japanese – JLPT N5
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