# ARQAM MOHAMED RASHED

**FULL-STACK DEVELOPER** — Next.js · React · TypeScript · Supabase · Rust · python

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## PROFESSIONAL SUMMARY

Full-Stack Developer who has shipped two production web platforms end-to-end with Next.js, React, TypeScript, and Supabase (PostgreSQL): a tourism management system with customer and admin portals, real-time chat, a booking engine, and a database-connected AI chatbot; and a retail management system for supplement stores. Owns the whole lifecycle from database design and authentication to deployment on a custom domain. Also built and released ArkoClick, an open-source Rust desktop automation tool for Windows with its own installer and auto-update pipeline. Currently works in logistics operations at Bosta, where I build my own internal tools to automate repetitive tracking and reporting work — a habit of turning real operational problems into working software.

## TECHNICAL SKILLS

- **Frontend:** Next.js, React, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, responsive UI
- **Backend & Data:** Supabase, PostgreSQL, database schema design, authentication & role-based access, REST APIs, real-time subscriptions
- **Desktop & Systems:** Rust, egui, Win32 API, multithreaded scheduling, Windows installers (Inno Setup), auto-update with checksum verification
- **AI & Automation:** LLM API integration, database-grounded AI chatbots, Telegram bots, automated email workflows, internal tooling for operations
- **Tools & Deployment:** Git/GitHub, Vercel, custom domains & DNS, environment configuration, production deployment, open-source releases

## PROJECTS

**Sequoia Travel — Tourism Management Platform** · sequoiatravel.com

Stack: Next.js, React, TypeScript, Supabase (PostgreSQL), Tailwind CSS, custom domain

- Designed and built a full-stack platform with separate customer and admin portals and role-based access.
- Built the booking engine, service-management dashboard, and real-time admin–client chat on Supabase.
- Developed a context-aware AI chatbot connected to the live database, so it answers from real services, prices, and bookings.
- Automated transactional emails (booking confirmations and admin notifications).
- Handled the full lifecycle: schema design, auth, deployment, and domain/DNS setup.

**ArkoClick — Windows Background Auto-Clicker (Open Source)** · github.com/arkamrashed97/ArkoClick · MIT license

Stack: Rust, egui, Win32 API, Inno Setup

- Built a native Windows desktop app that automates clicks, key presses, and typed text inside a chosen window, even while it is minimized or covered, without moving the user's mouse.
- Engineered input delivery through Win32 PostMessage, window binding that survives restarts, and a WinEvent hook that keeps hidden targets receiving input.
- Runs many tasks concurrently on one scheduler thread (min-heap of deadlines) with zero idle CPU.
- Shipped a full release pipeline: installer and portable builds, in-app auto-update with SHA-256 verification, global hotkeys, tray mode, profiles, and launch-with-Windows.
- Fully bilingual English/Arabic UI with right-to-left layout and Arabic text shaping; end-to-end tests that create real Win32 windows.

**RT Supplements — Retail Management System** · rtsupplements.vercel.app

Stack: Next.js, React, TypeScript, Supabase, Tailwind CSS, Vercel

- Built an inventory and sales management system for food-supplement stores.
- Implemented inventory tracking, sales recording, and stock reporting for multi-product retail.
- Added a built-in demo mode so users can test every feature with simulated data without touching real records.

## PROFESSIONAL EXPERIENCE

**Operations Specialist — Bosta** · Egypt · Aug 2025 – Present

- Manage daily shipping and logistics operations across the delivery cycle, including tracking, exceptions, and reporting.
- On my own initiative, built internal web tools (Next.js, Supabase) to automate the repetitive tracking and reporting tasks in my role, replacing manual spreadsheet work with live dashboards.
- Use these tools daily to track shipment status and generate reports, removing recurring manual data entry and making my reporting faster and more accurate.

**Front Desk Receptionist — Grand Memphis Hotel** · Luxor · Oct 2024 – Jul 2025

- Ran front-desk operations, guest check-ins, and high-volume reservations on the hotel's property-management software.

**Administrative Assistant / HR — AHE** · Cairo · Sep 2022 – Aug 2024

- Handled HR functions, employee relations, and day-to-day office administration.

## EDUCATION & LANGUAGES

**Bachelor's Degree in Tourism and Hotels** — Luxor University, Egypt · 2017 – 2021

Languages: Arabic (Native) · English (Professional Working Proficiency)