

SHERIF LOTFY

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SUMMARY

Full-stack web developer with a B.Sc. in Computer Science from Ain Shams University (2026). Experienced in building scalable SaaS products and real-time web applications using Next.js, React, TypeScript, and Convex. Comfortable owning full product lifecycles — from database design to deployment — and collaborating in fast-paced agile environments.

EDUCATION

Ain Shams University
B.Sc. in Computer Science

Cairo, Egypt
2022 – 2026

EXPERIENCE

Full-Stack Developer

Jul. 2024 – Present

WebbingStone

6th October City, Giza, Egypt

- Rebuilt the company website using Next.js and React, replacing a legacy Elementor-based stack. Achieved significant performance gains as measured via PageSpeed Insights.
- Led development of **AgencyKit**, a full-stack SaaS platform for digital marketing agencies covering the complete content lifecycle — from briefs to publishing — using Next.js, Convex, WorkOS, and social media APIs.
- Built **PostPilot**, a multi-platform social media scheduling SaaS with team collaboration, real-time notifications, media management on Cloudflare R2, and AWS Lambda-based post scheduling.
- Developed custom WordPress websites using PHP, jQuery, and Bootstrap; created plugins and customized themes to extend platform functionality.

Participant — 4th Place

Oct. 2025

NASA Space Apps Cairo 2025

- Built **Umbra**, an AI-powered space biology research platform for the NASA Space Apps Challenge. Indexed 608 NASA bioscience publications using a Python scraper powered by Gemini 2.0 Flash for entity extraction and vector embeddings.
- Delivered a multi-component system: Next.js 15 frontend with AI chat, D3.js knowledge graph visualization, an ASP.NET Core 8 REST API (BLL/DAL architecture), and a Convex real-time database — all within a 48-hour hackathon.

Participant — 4th Place

Feb. 2025

GDG Cairo AI Finance Hackathon 2025

- Developed **repAI**, an AI-powered recycling platform using Angular and Go, integrating Google Gemini API for real-time object detection and cashback calculation. Achieved 4th place out of all competing teams.

PROJECTS

AgencyKit | *Next.js, TypeScript, Convex, WorkOS, TailwindCSS, shadcn/ui, Resend*

2025 – Present

- An all-in-one content operations SaaS for digital marketing agencies. Manages the full content lifecycle: Brief → Design → Manager Review → Client Approval → Schedule → Publish.
- Implemented multi-tenant workspace architecture with role-based access control, multi-stage approval workflows, real-time collaboration via Convex subscriptions, and direct publishing to Facebook, Instagram, X, LinkedIn, TikTok, and YouTube.

PostPilot | *Next.js, TypeScript, Convex, WorkOS, Cloudflare R2, AWS Lambda, TailwindCSS*

2024 – 2025

- Full-stack SaaS for scheduling and publishing social media content across Facebook, Instagram, LinkedIn, X, TikTok, and YouTube. Features team collaboration, in-app chat, issue tracking, and analytics dashboards.
- Architected AWS Lambda-based scheduling engine, Cloudflare R2 media storage with presigned URLs, and real-time notifications via Convex subscriptions.

Safety Source | *Next.js, TypeScript, Convex, TailwindCSS, shadcn/ui, Recharts, jsPDF*

2025

- Store management and sales tracking platform with three distinct role-based dashboards: Owner, Accountant, and Seller. Features include sales entry, returns processing, team group chat with @mentions, PDF report generation, and OTP-based password reset.
- Designed a custom username/password auth system using bcryptjs with Convex Auth, and built real-time team messaging with soft-delete and unread tracking.

Umbra | *Next.js 15, TypeScript, Convex, WorkOS, ASP.NET Core 8, Python, Gemini AI, D3.js* Oct. 2025

- AI-powered space biology research platform built for NASA Space Apps Challenge 2025. Scraped and indexed 608 NASA bioscience publications using a Python pipeline with Gemini 2.0 Flash for entity extraction (organisms, conditions, biological processes) and vector embeddings.
- Delivered a conversational AI research assistant, interactive D3.js knowledge graph, and a clean ASP.NET Core 8 REST API with BLL/DAL architecture — all shipped within 48 hours.

repAI | *Angular, Go, Gemini AI API, Firebase, TailwindCSS* Feb. 2025

- AI-powered recycling rewards platform built for GDG Cairo AI Finance Hackathon 2025 — awarded **4th place**. Integrates Google Gemini API for real-time recyclable object detection and receipt scanning, with dynamic cashback calculation and a recycling marketplace.

More projects on my GitHub: github.com/sizif-22

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go, C++

Frameworks & Libraries: Next.js, React, Node.js, Express.js, TailwindCSS, shadcn/ui, D3.js

Backend & Database: Convex, Firebase, MongoDB, MySQL, PostgreSQL

Cloud & DevOps: AWS Lambda, Cloudflare R2, Vercel, Docker, Git, GitHub, GitHub Actions

Auth & APIs: WorkOS, REST APIs, Social Media APIs (Meta, X, LinkedIn, TikTok, YouTube), Gemini AI, OpenAI

Languages Spoken: Arabic (Native), English (Intermediate)