

Rafeek Ehab El Amir Ghaly

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SUMMARY

Computer and Communication Engineering student and co-founder with hands-on experience building production-grade software systems across SaaS, GIS, mobile applications, and e-commerce. Experienced in delivering real client products, contributing to research-driven systems, and developing scalable, data-driven platforms.

EDUCATION

B.Sc. Computer & Communication Engineering

Cairo University — Expected 2028

EXPERIENCE

Co-Founder & Software Engineer — WebSights.dev

2025 – Present

- Co-founded a software startup focused on building web and mobile systems for clients
 - Developed and deployed full-stack platforms including e-commerce and interactive systems
 - Built **One Person POV**, a production art e-commerce platform (*Live: opvgallery.com*)
 - Managed system architecture, deployments, and client delivery
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GEM Hackathon & Incubation Program — Technical Contributor

2025 – Present

- Served as **Technical Lead during the hackathon phase**, leading development of the core solution
 - Selected among top teams to join a **6-week incubation program** to refine the system toward production at the Grand Egyptian Museum
 - Currently contributing to planning, system design discussions, and architecture decisions
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Research & Development Contributor — Cultural Heritage Systems (Under Dr. Yasser Elshayeb)

2025 – Present

- Contributing to ongoing development of GIS-based and digital heritage systems
 - Working on feature expansion and improvements for production platforms
 - Collaborating within a multidisciplinary environment combining engineering, archaeology, and data systems
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Software Developer (Intern → Part-Time) — Kian Solutions

Jun 2025 – Oct 2025

- Developed production mobile applications using Flutter and React Native
 - Built and contributed to **Scanify (ordering app + kiosk system)** including cart, checkout, and real-time order flows
 - Worked on **Yalla ride-sharing application**, implementing ride management and backend integrations
 - Integrated GraphQL and REST APIs within AWS Amplify-based architecture
 - Collaborated in agile teams using Jira and Bitbucket
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PROJECTS

Heritage Egypt — GIS & Digital Preservation Platform

Live: heritage-egypt.info | [GIS Map](#) | [E-Cards Gallery](#)

- Built a platform with **200k+ geospatial heritage records** using PostgreSQL/PostGIS
 - Developed interactive GIS system with spatial queries and progressive rendering
 - Contributing to ongoing development and feature expansion under **Dr. Yasser (Cairo University & AUC)** in collaboration with Japanese heritage research teams
 - Implemented SEO optimization, full-text search, and multilingual metadata systems
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One Person POV — Art Gallery E-Commerce Platform (WebSights.dev)

Live: opvgallery.com

- Developed full-stack e-commerce platform with storefront and admin dashboard
 - Integrated **local payment flows (InstaPay / manual verification)**
 - Built order management system and admin tools for content and inventory
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Interactive Heritage Experience (Confidential Client Project)

- Developed a gamified digital heritage experience with interactive learning flows
 - Implemented multiple interaction types (MCQ, swipe, multi-select, etc.)
 - Built bilingual system (EN/AR) with user engagement analytics
 - Delivered full-stack solution under client and academic constraints
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SK Martial Arts — Gym Management System (WebSights.dev)

- Developed mobile and web system for gym operations management
 - Implemented QR-based attendance tracking and class scheduling
 - Built loyalty system and referral features
 - Designed multi-platform solution (Flutter + React)
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Collaborative Real-Time Text Editor (CRDT-based) — University Project

- Built a real-time collaborative editor using CRDT synchronization
 - Implemented concurrent editing and user presence tracking
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HACKATHONS & ACHIEVEMENTS

- 🏆 **1st Place — Grand Egyptian Museum Hackathon (2025)**
 - Technical Lead of winning team
 - Built Digital Visitor Passport system (QR, rewards, analytics, PDF export)
 - 🏆 **Top 10 Finalist — Red Bull Basement (FoodShare Project)**
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TECHNICAL SKILLS

Languages: Dart, TypeScript, Python, C++

Frameworks: Flutter, React, Next.js, JavaFX

Backend & Databases: GraphQL, REST, Supabase, PostgreSQL, PostGIS

Tools: Git, Jira, Bitbucket, Figma