

SEIF ZAKARIA

Full-stack Software Engineer – Cairo, Egypt

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Experience

Masons

Sept. 2024 – Present

Founder & Full-stack Software Engineer

Cairo, Egypt

- Building **Rafiqi**, an AI-driven mental health platform tailored for Egyptians, and previously led team through 4 NASA Space Apps Challenge iterations, achieving local finalist status once with project **LSE**.
- Led team to Top 5th finalist position out of 88 teams in GDG Cairo's AI Finance Hackathon 2025 with **repAi**.

DEPI x EYouth

Nov. 2024 – May 2025

Full Stack Web Development Intern (MERN Stack)

Cairo, Egypt

- Architected and developed the Node.js/Express.js backend for **Convo**, a real-time chat application engineered to support 500+ concurrent users via WebSockets (Socket.io).
- Implemented a secure, stateless RESTful API with JWT-based authentication and led the backend team's agile workflow, including code reviews, Git strategy, and automated testing before deployments.

Education

Ain Shams University

Cairo, Egypt

B.Sc. in Computer Science and Statistics

- Relevant Coursework:** Data Structures (DSA), Algorithms Analysis, Design Patterns, Database Management, Networking, Systems Programming, Web Development

Projects

Umbra - Space Biology Knowledge Engine (Masons) | Next.js, Tailwind, shadcn/ui, D3.js, Gemini API Oct. 2025

- Enabled semantic exploration of 608 NASA space biology papers by building D3.js graph visualization and Gemini-powered contextual search, connecting 50 years of fragmented research.
- Streamlined research synthesis by implementing Markdown editor with real-time organization capabilities for NASA Space Apps 2025, cutting down edit-time by more than 70%.

repAi - Recycling Rewards Platform (Masons) | Angular, Gemini API, Firebase, GCP Feb. 2025

- Built an AI-powered recycling platform for GDG Cairo's AI Finance Hackathon 2025, integrating object detection with adaptive cashback rewards.
- Implemented Google Gemini API for real-time recyclable material detection and pricing, with receipt scanning via Google Image API & Gemini's OCR.

Masons' Digital Presence (Masons) | TS, Next.js, Tailwind, shadcn/ui May 2025

- Developed the official website for Masons, showcasing the startup's vision, team, and product offerings.
- Crafted a sleek, accessible UI using TailwindCSS and shadcn/ui, aligned with modern design standards.
- Integrated components in TypeScript, improving dev velocity and long-term maintainability.

Orbit - 3D Solar System Exploration (Masons) | JS, Next.js, Three.js, NASA APIs Oct. 2024

- Built a 3D solar system simulation with real-time asteroid tracking, fetching data from NASA's Small Body Database.
- Optimized Three.js shader rendering for 60 FPS performance, ensuring smooth interactive space exploration.

Relevant Skills

Technical Skills: JavaScript, TypeScript, Python, MySQL, PostgreSQL, MongoDB, React, Next.js, Expo, Node.js, Express.js, Tailwind CSS, Socket.io, Drizzle ORM, Firebase, Convex, Linux, Git, GenAI, Fintech

Skills: Public speaking, Mentoring, Effective Communication, Emotional Intelligence, Decision-Making Under Pressure

Languages: Arabic (Native), English (C1 Proficient)

Leadership & Extracurricular

Microsoft Student Partner

Sept. 2025 – Present

Head of AI & Resonance

Ain Shams University

- Designed 5-month audio AI curriculum and committee framework covering signal processing, deep learning, and capstone projects (Shazam replica, piano transcription) for 30+ members.

Open Source Community

Nov. 2023 – Sept. 2025

Head of Human Resources & Public Relations Team Lead

Ain Shams University

- Optimized recruitment pipeline, increasing interviews by 94% (personally conducting 54), and authored HR policy guidelines while leading 15 workshops training the team on talent assessment.
- Expanded community reach through 2 keynote speeches to 300+ freshmen and increased social media engagement by 9%.