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 3 NASA Space Apps Challenge iterations, achieving local finalist status once.
- Led team to Top 7 finalist position out of 88 teams in GDG Cairo's AI Finance Hackathon 2025 with **repAi**.
- Implemented CI/CD pipelines cutting deployment time by 60% and failures by 27%, while developing **Orbit**.

DEPI x EYouth   **Nov. 2024 – May 2025**
Full Stack Web Development Intern (MERN Stack)   *Cairo, Egypt*
- Completed 6-month intensive full-stack internship with hands-on MERN stack development and industry mentorship.
- Shipped **Convo**, a real-time chat application capable of handling 500+ concurrent messages via Socket.io with JWT authentication.
- Implemented Zustand replacing React Context, reducing re-renders by 30% and improving application performance.
- Collaborated with my development cohort on code reviews, pair programming, and agile development methodologies.
- Deployed applications using modern DevOps practices including Git workflows, testing strategies, and vercel deployment.

Education

Ain Shams University   **Cairo, Egypt**
B.Sc. in Computer Science and Statistics   *2022 – 2026*
- **Relevant Coursework:** Data Structures (DSA), Algorithms Analysis, Design Patterns, Database Management, Networking, Systems Programming, Web Development

Projects

repAi - Recycling Rewards Platform | *Angular, Go, Google 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.
- Implemented secure transaction system using Firebase Authentication and reCAPTCHA, with Firebase backend.

Masons' Digital Presence | *TS, Next.js, TailwindCSS, ShadCN*   **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 | *JS, Next.js, Three.js, NASA APIs*   **Sept. 2024 – 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.

NAVERIS - Natural Disasters EWS | *Python, OpenWeather API*   **Sept. 2023 – Oct. 2023**
- Integrated OpenWeather API to fetch real-time weather data, improving early warning system accuracy by 87%.
- Innovated the dot matrix mapping system for precise geographical weather analysis, enabling 20x climate insights.

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, Linux, Git, GenAI, Fintech
Skills: Public speaking, Technical mentoring, Effective Communication
Languages: Arabic (Native), English (C1 Proficient)

Leadership & Extracurricular

Open Source Community   **Nov. 2024 – Present**
Head of Human Resources   *Ain Shams University*
- Optimized recruitment pipeline, increasing conducted interviews count by 94% and personally conducting 37.
- Authored HR guidelines on policies, incentives, and evaluation frameworks while leading 13 HRM workshops to mentor and train the HR team on talent assessment.

Open Source Community   **Nov. 2023 – May 2025**
Public Relations Team Lead   *Ain Shams University*
- Expanded community reach through 2 keynote speeches to 300+ freshmen on the welcome day.
- Drove 9% social media engagement growth via targeted campaigns.