Omar Elbedawy

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PROFESSIONAL SUMMARY

Top-ranking STEM scholar and Full-Stack Developer specializing in scalable web architecture and human-centered AI. Proven track record of engineering high-impact technical solutions and securing national awards.

EDUCATION & HONORS

Kafr Elshiekh STEM High School for High Achievers **(2023-2026)**

- **Honors:** Finalist at the International Math Bowl (Grade 11) | 3rd Place - Egypt IoT and AI Challenge (Grade 10) | Finalist at Deep Tech Geeks Egypt (Grade 12).

El-Nasr Official Language School **(2022-2023)**

- **Honors:** Ranked 1st in Class (9th Grade).

EXPERIENCE

Digital Egypt Cubs Initiative (DECI) **September 2022 – September 2026**
Full-Stack Web Development Trainee

- Selected for an intensive 4-year national track; mastered full-stack web development methodologies; built 7+ websites with hundreds of users.

Stanford Pre-Collegiate Summer Program **June 2026**
Full-Scholarship Participant (Product Design)

- Awarded a highly competitive global scholarship; collaborated to apply complex product design frameworks (e.g., Porter's 5 Forces) to architect scalable tech solutions.

Pulse Club **October 2025 – Present**
Founder & President

- Founded a STEM-focused organization; directed a 30-member executive team to generate advanced coursework resources, directly empowering 700+ peers.

Artwood **June 2025 – August 2025**
CNC Laser Operator & Supply Chain Assistant

- Operated advanced CNC laser machinery for 40+ hrs/wk; managed MDF-wood production lines and optimized the factory's local supply chain flow.

PROJECTS

Green-AI | Product Design, Startup Architecture

- Spearheaded the technical architecture for an AI-driven environmental startup and delivered an executive pitch, successfully winning awards at the national level.

PixelGuard |NYAS Ethical AI Platform

- Co-developed an anti-scraping SaaS platform that injects targeted adversarial noise into images to disrupt unauthorized AI facial recognition.

Hajiz |NYAS Ethical AI Platform

- Engineered a travel-sync backend using real-time aviation APIs to autonomously alert hotels of flight delays, eliminating "no-show" traveler penalties.

TECHNICAL SKILLS

Software & Web| JS(ES6), Python, C/C++, HTML/CSS, React, Node.js, Express, SQL, Prisma, PostgreSQL.
DevOps & Hardware | Docker, Kubernetes, GitHub CI/CD, Vercel, System Architecture, ESP32, CNC Machining.