

ARSANI MAGDI

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PROFESSIONAL SUMMARY

Enthusiastic and results-driven student developer and robotics programmer with a strong foundation in software engineering, web development, and embedded control systems. Proven history of building responsive, user-centric web applications and programming autonomous robotic systems for national and international competitions. Highly skilled in problem-solving and rapid learning of new programming languages and frameworks.

WORK EXPERIENCE

Software Engineering & Web Development Intern | Atlantis Developers

december 2023 – april 2024

- Collaborated in building and optimization of modern, responsive web applications using HTML5, CSS3, JavaScript, and TypeScript.
- Created scalable frontend elements, focusing on high-performance UX, client-side load efficiency, and cross-device compatibility.
- Participated in system integration and testing pipelines, debugging codebase components and ensuring seamless deployment.
- Engaged with development leads to review architectures, implement feedback, and improve overall website responsiveness.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, TypeScript, Dart, C#, Kotlin, Swift, Go, Rust, PHP, R, Ruby, HTML, CSS
- **Web Development:** Responsive UI/UX, Bootstrap, Frontend & Backend Integration, REST APIs, Vercel, Firebase
- **Robotics & Hardware:** Arduino, NXT Robotics, EV3, VEX IQ, WeDo, Sensors Integration, Control Systems, Microcontrollers
- **Developer Tools & OS:** Git, GitHub, VS Code, Linux, Windows, XAMPP, Local Dev Environments

CORE PROJECTS

Dr Rafik Clinic - Healthcare Web Platform Application

Live Web

- Designed and deployed a responsive medical clinic platform on Vercel, creating an elegant UI that optimizes patients' appointment scheduling and highlights healthcare offerings.

Fibonacci Egypt - Community & Registration Platform

Live Web

Application

- Engineered a community platform hosted on Firebase, enabling tech and robotics contestants to register, view schedules, and explore competitive categories.

Autonomous & Competitive Robotics Systems

Hardware & Software

- Developed and optimized embedded programs for Arduino, NXT, and EV3 microcontrollers. Built control loops integrating ultrasonic, color, and touch sensors to achieve automated fire fighting and sumo tasks.

Web & Desktop Productivity Suite

Python, Flutter & JS

- Built utility apps including a Pomodoro Timer, Note/To-Do applications, Instant QR Code Generator, and Password Generator using JavaScript (Web) and Python (Desktop).

EDUCATION & MENTORSHIP

Student Developer & Robotics Practitioner

Ongoing

- Focused study in Web Development, Software Engineering, Networks, and Electronics/Robotics.
- FLL Explore Mentor: Guided student teams during FLL Explore seasons (Masterpiece 2024 and Super Powered 2023) in building and presenting mechanical designs.

HONORS & AWARDS

- First Prize, Heritage Web Design Competition, Catholic Schools Egypt (2026)
- First Prize, Fibonacci Egypt Championship - Python Division (2026)
- Third Prize, Fibonacci Egypt Championship - Sumo 3kg Senior Division (2026)
- Second Prize, RoboRAVE Egypt Alexandria - FireFighting Division (2025)
- Third Prize, Robo Tourney Egypt Qualification (2025)
- First Prize, Al Karaza Festival Electronic Projects / Competitions (2023, 2024, 2025)
- Third Prize (Bronze Medal) & Contestant, Robot Challenge Beijing (International, 2019)
- DELF A2 French Language Diploma (2022)