

## HASSAN AHMED HASSAN

Full Stack Developer (Web Specialization)

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[\[LinkedIn\]](#) | [\[GitHub\]](#) | [\[Portfolio\]](#)

### PROFESSIONAL SUMMARY

Ambitious 16-year-old Full Stack Web Developer with strong skills in **React.js, Node.js, and Laravel**. Proven track record of building AI-integrated web applications and participating in national hackathons (NASA Space Apps, ISEF). Passionate about combining advanced web technologies with AI agents to solve complex automation problems.

### TECHNICAL SKILLS

- Web Development: React.js, Node.js, Laravel (PHP), HTML5, CSS3, Tailwind CSS.
- AI & Automation: LLM Integration, Python, Computer Vision, Selenium.
- Tools: Git, GitHub, Postman, VS Code, Adobe Ps/Ai.
- Soft Skills: Leadership, Public Speaking, Technical Research, Team Management.

### FEATURED PROJECTS

#### AG (Autonomous Agent) | *Python, LLM Integration*

- Developed a desktop automation tool that empowers Large Language Models to execute real-time commands on a user's computer.
- Engineered features allowing the AI to control mouse/keyboard inputs, search the web, and execute terminal commands to complete complex workflows.
- Optimized a "retry loop" algorithm, allowing the agent to self-correct and attempt different approaches if a task fails.

#### Optiscan AI | *Computer Vision, Mobile & Web*

- Built a medical diagnostic application capable of detecting eye diseases with 90% accuracy using a trained machine learning model.
- Implemented real-time image guidance to assist users in capturing medical-grade images for analysis.
- Collaborated with a team of 5 to integrate the Python-based AI model with a responsive frontend interface.

#### LifeTrack AI | *Flutter, AI Personalization*

- Created a habit-tracking application featuring a personalized "AI Life Coach" that adapts to user behavior.
- Designed algorithms to analyze daily metrics (sleep, food, exercise) and provide tailored lifestyle recommendations.
- Built a robust notification system to improve user retention and consistency.

### HONORS & AWARDS

#### NASA Space Apps Challenge | *Competitor*

- Project AstroV: Developed an asteroid impact simulation tool to predict potential collision consequences.
- Utilized physics data to model trajectory and impact zones, presenting the solution to a panel of technical judges.

#### ISEF (International Science and Engineering Fair) | *Governorate Level Finalist*

- Qualified for the governorate-level finals with a research-based technical project.
- Demonstrated advanced problem-solving and presentation skills against top student researchers in the region.

### LEADERSHIP & VOLUNTEERING

- International Delegations: Selected to represent Egyptian youth in official Japanese, German, and Canadian delegations.
- Student Representative: Represented WE Applied Technology School at the Industry Conference (Cairo ICT/Exhibition Grounds).
- Community: Active member of GDG (Google Developer Groups) and Nile University Egnite events.

### EDUCATION

WE School for Applied Technology (WE ATS) | *Giza, Egypt*

- Specialization: Web Development & IT
- 2023 – 2026 (*Expected*)