

ABDELRAHMAN ELSHARKAWY

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EDUCATION

Genova University MEng. <i>Engineering Technology for Strategy and Security (STRATEGOS)</i> Focus <i>AI/ML, Software Engineering, Modeling, Simulation and Strategic Decision Support.</i>	<i>Sep 2025 - Jun 2027</i> <i>Genova, Italy</i>
Cairo University Faculty of Engineering BSc. <i>Healthcare Engineering and Management</i> Focus <i>Software Engineering, Systems and Biomedical Data Engineering.</i>	<i>Sep 2020 - Jun 2025</i> <i>Cairo, Egypt</i>

EXPERIENCE

Full-stack Web Developer Intern <i>National Telecommunication Institute (NTI)</i> <ul style="list-style-type: none">Developed E-commerce websites and web apps with MERN stack with scalable backend with express.Worked in teams to improve communication skills and with clients to gain freelancing basics.	<i>Jul 2024 - Sep 2024</i> <i>Remote/Hybrid</i>
Competitive Programmer and Problem Solving Contestant <i>International Collegiate Programming Contest (ICPC ECPC)</i>	<i>Jul 2024</i> <i>Alexandria, Egypt</i>
Medical devices Field Service Engineering Intern <i>Kasr AlAiny School of Medicine Hospital</i> <ul style="list-style-type: none">working on OR, ICU, Sterilization and disinfection medical devices, Incubators and power supply electronics.	<i>Jun 2023 - Sep 2023</i> <i>Cairo, Egypt</i>
Clinical Engineering Intern <i>Health Systems Innovation (HSI) for Training and Consultation,</i> <ul style="list-style-type: none">Performed Hospital Design Review, Medical Equipment Planning, Maintenance Management & procurement.	<i>May 2023 - Aug 2023</i> <i>Cairo, Egypt</i>
Front-End Web Developer intern <i>Kalbonyan al-marsos Organization</i> <ul style="list-style-type: none">Design modern UIs, develop websites, landing pages and collaborating using version control with Git flow.	<i>Dec 2022 - Feb 2023</i> <i>Remote</i>

SKILLS

Technologies : FastAPI, Express.js, React, TailwindCSS, LangChain, Git, Docker, PostgreSQL, MongoDB, Excel.
Programming Languages: Python, TypeScript, MATLAB, HTML, CSS, C/C++, SQL, Linux Bash.
Languages: Arabic (Native), English (Fluent C1), Italian (A1), German (A1).

PROJECTS

VR Simulation for Endoscopic Neurosurgery (Graduation project) <ul style="list-style-type: none">Created a 3D immersive environment with realistic anatomy, lighting, textures, and collisions interactions.Aimed to provide a safe and repeatable training platform for neurosurgeons and medical students.Poster Paper Video Prize	<i>Nov 2024 - May 2025</i>
Lockedin (fully featured Linkedin Clone) <ul style="list-style-type: none">Used agile method & Git flow with a 4-member backend team using Express.js as backend framework.Created complete authentication/authorization module with captcha, Google login, & admin dashboard for analytics.Wrote complete API documentation and unit tests with >90% coverage for consistent integration	<i>Feb 2025 - May 2025</i>
TrueForm PDF (Scanned PDF converter) <ul style="list-style-type: none">converting scanned documents and handwritten notes into a searchable, editable, compressed digital PDFsUtilizing AI powered OCR with multistep LLM chaining to maintain the integrity of the pagelayout.	<i>Aug 2025 - Present</i>

AWARDS AND ACHIEVMENTS

Graduation Project Distinction competition and Funding <ul style="list-style-type: none">Won 2nd place winner and 4000 pounds by the decision of an arbitration committee of industry experts.Won 100,000 pounds from Academy of Scientific Research & Technology & ITAC Collaborative Funded Projects.	<i>Feb 2025 - Jun 2025</i>
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