

# ABDELRAHMAN ELSHARKAWY

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## EDUCATION

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

## EXPERIENCE

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

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

## AWARDS AND ACHIEVMENTS

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