

ABDELRAHMAN ELSHARKAWY

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EDUCATION

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

EXPERIENCE

Full-stack Web Developer Intern	<i>Jul 2024 - Sep 2024</i>
National Telecommunication Institute (NTI)	Remote/Hybrid
• 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.	
Competitive Programmer and Problem Solving Contestant	<i>Jul 2024</i>
International Collegiate Programming Contest (ICPC ECPC)	Alexandria, Egypt
Medical devices Field Service Engineering Intern	<i>Jun 2023 - Sep 2023</i>
Kasr AlAiny School of Medicine Hospital	Cairo, Egypt
• working on OR, ICU, Sterilization and disinfection medical devices, Incubators and power supply electronics.	
Clinical Engineering Intern	<i>May 2023 – Aug 2023</i>
Health Systems Innovation (HSI) for Training and Consultation,	Cairo, Egypt
• Performed Hospital Design Review, Medical Equipment Planning, Maintenance Management & procurement.	
Front-End Web Developer intern	<i>Dec 2022 - Feb 2023</i>
Kalbonyan al-marsos Organization	Remote
• Design modern UIs, develop websites, landing pages and collaborating using version control with Git flow.	

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)	<i>Nov 2024 - May 2025</i>
• 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	
Lockedin (fully featured Linkedin Clone)	<i>Feb 2025 - May 2025</i>
• 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	
TrueForm PDF (Scanned PDF converter)	<i>Aug 2025 - Present</i>
• converting scanned documents and handwritten notes into a searchable, editable, compressed digital PDFs	
• Utilizing AI powered OCR with multistep LLM chaining to maintain the integrity of the pagelayout.	

AWARDS AND ACHIEVEMENTS

Graduation Project Distinction competition and Funding	<i>Feb 2025 - Jun 2025</i>
• 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.	