Abdelrahman Elsharkawy

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EDUCATION

Genova University *Sep 2025 - Jun 2027*
MEng. | *Engineering Technology for Strategy and Security (STRATEGOS)* *Genova, Italy*
Focus | *AI/ML, Software Engineering, Modeling, Simulation and Strategic Decision Support.*

Cairo University Faculty of Engineering *Sep 2020 - Jun 2025*
BSc. | *Healthcare Engineering and Management* *Cairo, Egypt*
Focus | *Software Engineering, Systems and Biomedical Data Engineering.*

EXPERIENCE

Full-stack Web Developer Intern *Jul 2024 - Sep 2024*
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 *Jul 2024*
International Collegiate Programming Contest (ICPC ECPC) *Alexandria, Egypt*

Medical devices Field Service Engineering Intern *Jun 2023 - Sep 2023*
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 *May 2023 – Aug 2023*
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 *Dec 2022 - Feb 2023*
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) *Nov 2024 - May 2025*

- 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) *Feb 2025 - May 2025*

- 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) *Aug 2025 - Present*

- 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 ACHIEVMENTS

Graduation Project Distinction competition and Funding *Feb 2025 - Jun 2025*

- 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.