

ABDELRAHMAN HELMY

Software Engineer

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in AbdelrahmanHelmy

⌚ Helmy-JR

EDUCATION

Bachelor of COMPUTER SCIENCE

Suez Canal University

📅 09/2021 - 07/ 2025

📍 Ismailia, Egypt

PROJECTS

Optima APP - Graduation Project ⌚ Project link

- Developed the backend for a mobile app connecting visually impaired users with volunteers for real-time assistance.
- Built RESTful APIs for authentication, user management, call requests, and implemented secure video calls via Twilio.
- Designed scalable backend architecture with role-based access, queue-based matching, real-time interaction support.

Expenses Tracker API ⌚ Project link

- Built a RESTful API with Node.js, Express, and MongoDB/Mongoose, featuring JWT auth and Google login support.
- Implemented expense tracking with CRUD operations, summaries, analytics, and robust validation using Joi middleware.
- Deployed on Render and gained experience in API design, authentication flows, documentation, and cloud deployment.

Natours API ⌚ Project link

- Developed a full-featured backend using Node.js, Express, and MongoDB/Mongoose, following RESTful principles.
- Implemented authentication, authorization, error handling, file uploads, and integrated security best practices.
- Gained experience in API design, NoSQL data modeling, media handling, and backend performance optimization.

SKILLS

- PROGRAMMING C++, HTML, CSS, Java, JavaScript, Python

- MISCELLANEOUS OOP, Algorithms, Data Structure, SOLID Principles, Markdown, LaTeX, Git, Gitflow

ACHIEVEMENTS

Egyptian Collegiate Programming Contest Qualification (ECPCQ) 2023

- ranked 30th on my university and 120th among all universities on that day

Egyptian Collegiate Programming Contest Qualification (ECPCQ) 2022

- ranked 25th on my university and 90th among all universities on that day

Orange Digital Center Software Hackathon 2022

- ranked 8th on Ismailia Governorate

VOLUNTEERING

Community Leader

ICPC SCU community

📅 Oct 2022 – July 2025

📍 Suez canal university, Egypt

- Empowered community members through dynamic knowledge exchange sessions and discussions.
- Organized workshops and competitions to enhance programming skills and explore diverse paradigms and languages.
- Implemented outreach strategies to expand community reach and foster inclusivity among individuals with varied programming backgrounds.

CERTIFICATES

- Version Control Course link
- Python Programmer Bootcamp 365 Data Science Course link
- Introduction to Back-End Development Course link
- Orange Software Hacathon Course link