

Mohamed Elsayed

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EDUCATION

University of Birmingham - predicted 1st class

Artificial Intelligence and Computer Science BSc

Birmingham, UK

Sep. 2021 – May 2024

Societies: Small business owners society (Vice president) — Computer Science Society — Basketball Society

Key Modules: Data Structures and Algorithms — Software Engineering — Human-Computer Interaction — Artificial Intelligence 2— Security and Networks—Mobile Computing and Ubiquitous Systems

Kaplan college London - Pass with Merit

Foundation Certificate for Science and Engineering

London, UK

Jan. 2020 – Aug 2020

EXPERIENCE

Co-Founder & Technical Lead

Jigsaw Careers

Jan 2023 – Feb 2024

Birmingham

- Directed the development and launch of a career services platform using Python and React, growing the user base by 200 percent within six months.
- Managed and conducted a mini hackathon, increasing platform engagement, highlighting effective event management and promotional skills.
- Engineered an AI-driven job matching algorithm using Python, React, and OpenAI's API, improving matching accuracy for students and startups.

Web Developer Intern

Tasweeq Real Estate

Nov. 2023 – Mar 2024

Cairo, Egypt

- Enhanced user interface features using React and advanced JavaScript, improving navigation and accessibility, meeting weekly deadlines for critical updates on the company's real estate platform.
- Built custom solutions with HTML, JavaScript, and integrated advanced search capabilities with NoSQL databases like MongoDB, boosting website traffic by 15 percent and user engagement by 25 percent
- Collaborated with cross-functional teams, including UX designers and backend developers, ensuring seamless integration of backend functionalities with front-end designs, optimizing the overall user experience.

Information Technology Summer Intern

New Hawai For Tourism And Investment

June 2023 – Sep 2023

Cairo, Egypt

- Managed and optimized SQL databases for amusement park operations, achieving a 30 percent reduction in data retrieval times.
- Spearheaded a social media campaign that grew customer interactions by 20 percent, aiding seasonal marketing efforts.
- Applied object-oriented design principles and data-driven decision-making to enhance the efficiency and performance of internal applications.

NOTABLE SIDE PROJECTS

AI job-matching Algorithm | Python , JavaScript, Agile Git, external API

Aug 2023 – Mar 2024

- Constructed an AI-driven job matching algorithm, utilizing Python and React, focused on creating efficient matches between students and startups.
- Incorporated word embeddings and TF-IDF techniques, and integrated OpenAI's API to enhance the algorithm's matching accuracy.
- Demonstrated creative problem-solving by synthesizing APIs and algorithms to address the complex challenge of job matching.

- Engineered an AI-powered web application to analyze market trends for various industries using Python, React, and HTML.
- Integrated external APIs, including OpenAI and NewsAPI, to pull real-time data, Improving the app's data-gathering capabilities.
- Gained practical experience in managing API keys and employing web scraping techniques to aggregate and process data.

RESPONSIBILITIES AND ACHIEVEMENTS

- Successfully organized a university of birmingham hackathon event, achieving a turnout of over 40+ students and 6+ industry professionals from renowned companies such as Goldman Sachs, EY, and Santander.
- Led event planning and coordination, securing sponsorships, managing logistics, and ensuring a smooth execution.
- Facilitated valuable networking opportunities and industry engagement for students, enhancing their practical skills and career prospects.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS
- **Frameworks & Tools:** Angular, React, Docker, Figma, Git
- **Database Management:** SQL, NoSQL (MongoDB, Elastic Search), database optimization techniques
- **APIs:** Integration and management of external APIs like OpenAI and NewsAPI
- **Leadership:** Led teams in high-stakes projects, motivating and guiding teams to achieve complex objectives.
- **Communication:** Articulated complex technical details across all organizational levels.
- **Problem-solving:** Applied creative and analytical approaches to solve challenging problems.
- **Languages:** English (Expert), Arabic (Expert)