

Fady John Eshak

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Education

New York University Abu Dhabi

Bachelor of Computer Science (GPA: 3.96 / 4.00)

May 2026

Abu Dhabi, UAE

- **Relevant Coursework:** Data Structures, Algorithms, Artificial Intelligence, Data Analysis

Experience

Digital Humanities Research Assistant

New York University Abu Dhabi

Oct 2023 – Jan 2024

Abu Dhabi, UAE

- Trained an Arabic Handwritten Text Recognition model, improving character detection accuracy from 71.7% to 92.5%.
- Expanded the training set by 30k words and performed data cleaning and error detection to ensure its accuracy.
- Implemented an image processing python script to automate identifying the languages of a given document's pages.

Full-Stack Developer Intern

Qaabl

Jul 2023 – Oct 2023

Abu Dhabi, UAE

- Optimized data fetching algorithms and implemented data caching, improving load time by 1.2s.
- Developed a feature to match users based on their interests using Content-Based matching algorithm.

Interactive Media Student Assistant

New York University Abu Dhabi

Mar 2023 - Jun 2023

Abu Dhabi, UAE

- Created interactive visualizations, animations, and generative art pieces using P5.JS.
- Collaborated in the creation and editing of multimedia content (e.g., videos, animations, graphics).

Projects

Website Performance Tracker

Github Repo

- Developed a web app to analyze websites and collect performance metrics (SEO, PWA, Accessibility).
- Implemented a user authentication system and data storage to enhance functionality.
- Utilized Chart.JS for data visualizing and tracking website performance metrics over time.

Bolt Chat Bot

Github Repo

- Developed a chatbot using PyTorch, incorporating NLP methods for text processing using NLTK.
- Utilized the TextRank algorithm to implement a text summarization feature, allowing users to generate concise summaries of text content based on their specified length preferences.

E-commerce REST API

Github Repo

- Developed a RESTful API to manage CRUD operations for an ecommerce platform.

Leadership and Community Involvement

Web Developer

IEEE Helwan University Student Branch

Aug 2020 – Oct 2021

Cairo, Egypt

- Instructed 8+ full-stack web development workshops for 50+ students, covering HTML, CSS, JavaScript, and PHP.
- Mentored 2 teams during the Texos web development competition; provided continuous technical guidance throughout the hackathon, getting one of the teams to achieve the first-place prize.

Head of IT & Web Development Team

STEM High School for Boys

Jul 2020 - May 2022

Giza, Egypt

- Guided 30+ freshmen to learn web development, providing them with tasks and feedback.
- Created the school website UI-UX design and led the web development team to build the website.

Technical Skills

Languages: JavaScript, C, C++, Python, Assembly, PHP, HTML, CSS

Frameworks & Tools: ReactJs, NodeJS, MySQL, MongoDB, Express.js, Jquery, Bootstrap, Tailwind, Material-UI, AdobeXD, Firebase, Postman, NumPy, Pandas