Fady John Eshak Rezk

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EDUCATION

New York University Abu Dhabi   May 2026
B.Sc. in Computer Science & Interactive Media   *GPA: 3.81 / 4.00*
Coursework: Data Structures, Algorithms, Artificial Intelligence, Data Management & Analysis, Networks, Algorithmic Problem Solving, Computer Security, Data Analytics & Visualization, Software Engineering, Operating Systems

WORK EXPERIENCE

Full-Stack Developer   Jan 2025 – Sep 2025
Scandiweb   *Latvia, Remote*
- Contributed to a 6-month Magento project for OM Digital Solutions, delivering an eCommerce platform with 35 regions and 20+ languages, serving 100K+ monthly users.
- Completed 120+ sprint tasks and merged 150+ pull requests while collaborating in an Agile team environment, participating in stand-ups, retrospectives, and code reviews to deliver high quality tasks.
- Architected and implemented a custom Magento module integrating the TecDoc API with scheduled cron jobs, automating product data enrichment and reducing latency by 356ms per request.
- Worked on implementing 55+ reusable modular content blocks with Tailwind CSS, integrating Sanity CMS to deliver scalable and flexible frontend layouts.

Machine Learning Research Assistant   Oct 2023 – May 2024
Digital Humanities NYU Abu Dhabi   *Abu Dhabi, UAE*
- Trained an Arabic Handwritten Text Recognition model using Transkribus, improving character detection accuracy by 72.7% to 91.5%.
- Implemented a web scraping script to extract groundtruth data, expanding the training set by 30k words.
- Developed an image processing Python script to automate language identification of handwritten document pages, reducing manual workload by 80%.

Full-Stack Developer Intern   Jul 2023 – Oct 2023
Qaabl   *Abu Dhabi, UAE*
- Optimized data fetching algorithms and integrated data caching and session storage, improving latency by 30%.
- Developed a feature to match users based on their interests using Content-Based matching algorithm.

Web Development Mentor   Aug 2020 – Oct 2021
IEEE Helwan University Student Branch   *Cairo, Egypt*
- Instructed 8+ full stack web dev 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 win the 1st place.

PROJECTS

DataSight (Capstone Project)   In Process
- Architected end-to-end chart correction pipeline using Gemini API for data extraction (88% accuracy), detecting flaws, generating Vega-Lite specifications and regenerating visual charts from flawed input images.
- Developed a custom rule-based visualization linter to detect 65+ encoding violations and chart design flaws.

Website Performance Tracker   Github Repo
- Developed a web app using ReactJs, Node.Js, and MySQL to analyze websites and collect 6 performance metrics, including SEO, PWA and accessibility.
- Utilized Chart.JS for data visualizing and tracking website performance metrics over time.

Movie Mingle   Github Repo
- Developed and deployed a movie recommendation web app using Flask, attracting 1,000+ users in 3 months.
- Built a weighted content-based recommendation engine using Python, processing a dataset of 10,000+ movies.
- Utilized AJAX for real-time updates, improving application performance and user experience.

SKILLS

Languages: JavaScript, Python, PHP, C, C++, TypeScript, NodeJS, HTML, CSS
Frameworks & Tools: ReactJs, MySQL, MongoDB, Express.js, RESTful API, Flask, AJAX, Magento, Jquery, Bootstrap, Tailwind, Material-UI, AdobeXD, Firebase, Postman, Git, Jira, Docker, NumPy, Pandas, Tableau, Figma