Youssef Isaac

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https://youssefisaac0.github.io/Portfolio/

CAREER SUMMARY

A computer science fresh graduate who has great planning and problem-solving skills. Currently seeking software engineering / full-stack opportunities to implement my knowledge and skills in real-world situations.

WORK EXPERIENCE

Solvytix, Cairo, Egypt, Full Stack developer Intern, JUN 2024 – Present
- Actively involved in frontend development using React.js and backend development using .NET technologies (ASP.NET Core)
- Implementing user interfaces, integrating APIs, and contributing to the development of scalable web applications with high performance.
- Communicating with a wide team of data analysts, product designers and to achieve the best outcomes possible.

EDUCATION

Bachelor's degree in computer and information science, **Ain Shams University,** Oct 2020 – Jul 2024
- CGPA: 3.7
- **Relevant courses:** Data Structures, Algorithms, Operating Systems, Database, Computer Networks, Computer and network security, Machine Learning, Deep learning and neural networks, Computer vision, Digital Signal processing

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Projects

GenX, Jun 2024 – present

Developing a full-stack web application that helps bioinformaticians to get useful insights from medical documents.
- Responsibilities:
  - ✓ Designing user-friendly interface using React.js.
  - ✓ Implementing lazy loading, memoization, code splitting to improve the web performance by 30%
  - ✓ Managing a non-relational (MongoDB) database for querying and inserting operations.
  - ✓ Architected a scalable backend system with ASP.NET CORE, employing repository design patterns that streamlined data access, resulting in reduction in query response times and improved overall application performance. Implementing RESTful APIs for seamless front-end to back-end communication.
  - ✓ Writing unit tests to ensure the application works properly
  - ✓ Communicating with data analysts and bioinformaticians to extract useful data for the client

ALCA (Apical Lesion Classifier Application), Oct 2023 – Jun 2024
- Graduation Project (Grade: A)
- Preprocessing training data with computer vision techniques such as filtering and edge detection.
- Building a Neural Network using transfer learning to classify apical lesion disease, which had an accuracy of 84% (better than 90% of the existing deep learning models for our specific subject).

- Developing an application with React.js, and Django to integrate the deep learning model with the application

Exercise logger & tracker, Nov 2023
- Developed a full-stack application with Node.js and Express.js, utilizing MongoDB for data storage.
- Implemented user authentication and exercise tracking features using vanilla JavaScript and Tailwind CSS for front-end design.

Weather App, Mar 2021
- Created an asynchronous web app using HTML, CSS, and JavaScript to display current weather data fetched from OpenWeatherMap API.
- Implemented server-side functionality with Node.js and Express.js.

SKILLS AND STRENGTHS

- **Programming languages:** C#, C++, C, JavaScript, TypeScript, Java, Scala, Python, Dart
- **Front-end**: JQuery, React.js, Vanilla JS, HTML, CSS (Tailwind CSS, Bootstrap, SASS), Flutter
- **State Management:** Redux
- **Back-end:** Node.js, Express.js, ASP.NET CORE
- **Databases:** MongoDB, SQL
- **Other**: RESTful APIs, Problem Solving, Planning, Design patterns, SOLID principles, Teamwork, Agile, JWT Authentication, Docker, Kubernetes, Unit Testing, API Development, Version Control (Git)

PROFESSIONAL ACCOMPLISHMENTS

JUN 2024
ACKNOWLEGED FOR ACHIEVING TOP PROJECT IN DESIGN & IMPLEMENTATION COURSE
Out of over 50 teams, I achieved the top project award by writing clean and efficient code, meeting all project criteria, and exceeding expectations with exceptional performance.

JUL 2021
Nominated for best project in Structured programming course.
Received nomination for the best project in Structured Programming course.
Crafted a captivating project demonstrating mastery of structured coding principles. Acknowledged for delivering efficient, clean, and organized code.

MAY 2021
Selected to Meet Minister of Communication and Information Technology
I was honored to be chosen as one of the top students in the FWD initiative, which Led to an invitation to meet with the Minister of Communication and Information Technology. Recognized for consistently meeting and exceeding program criteria, I actively assisted fellow participants in completing their tracks. This selection to represent the initiative before the minister underscores my dedication.