

Youssef Hussein Ahmed

Full-Stack Developer

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SUMMARY

A highly Skilled full-stack developer with over 2 years of experience in building and optimizing scalable, high-performance web applications. Expertise in frontend development (React.js, Next.js) and backend systems (Node.js, Express.js), with a focus on creating seamless user interfaces, efficient API integration, and robust database management (MongoDB, MySQL). Proven ability to lead end-to-end development, from system architecture to deployment on cloud platforms such as AWS and Hostinger. Strong problem-solving skills with a focus on performance optimization, ensuring responsive and reliable applications. Adept at collaborating within Agile environments, working alongside cross-functional teams to deliver user-centric solutions that drive business objectives. Passionate about continuously improving skills and staying up-to-date with emerging technologies to enhance application scalability and efficiency.

SKILLS

- MERN Stack Development (MongoDB, Express.js, Next.js / React.js, Node.js / Bun)
 - Frontend Development (TypeScript/JavaScript, Tailwind CSS, HTML5, CSS3)
 - Backend Development (RESTful APIs)
 - Database Management (MongoDB, MySQL, NoSQL, SQL)
 - Version Control (Git, GitHub, GitLab, Git Workflow)
 - Cloud Deployment & Hosting (Hostinger, AWS, Render, Vercel)
 - API Integration
- Generative AI
 - Deep Learning & AI (Python, Tensorflow/keras, CNNs)
 - Agile Methodologies
 - UI/UX Design
 - Soft Skills (Communication, Problem-Solving, Teamwork, Adaptability)

WORK EXPERIENCE

Full Stack Web Developer | IVY STEM International School

Mar 2024 – Present

- Lead the development and deployment of cutting-edge educational platforms using Next.js/React.js, Redux, Tailwind CSS, Node.js/Express.js, PHP/RedBeanPHP, and AWS, driving scalability and performance.
- Engineer seamless integrations between MySQL and MongoDB backends with API services, ensuring robust data management and system reliability.
- Create and optimize advanced administrative dashboards, streamlining real-time student data analysis and enhancing decision-making processes.
- Innovate cloud-based file processing solutions, significantly boosting operational efficiency and accessibility across the platform.

Freelance MERN Stack Web Developer | Remote | Various Clients

- Architected and delivered dynamic, scalable full-stack web applications utilizing the MERN stack (MongoDB, Express.js, Next.js / React.js, Node.js / Bun), ensuring seamless user experiences and robust backend performance.
- Spearheaded the deployment and continuous optimization of applications on platforms such as Hostinger, focusing on high availability, speed, and security.
- Collaborated with clients to tailor custom web solutions, delivering end-to-end development services, from initial design to deployment and ongoing maintenance, meeting diverse business needs.

Academic Instructor & Head of Academic Committee | Pixels Students Activity - Helwan University

Sep 2019 – Oct 2021

- Orchestrated the end-to-end delivery of a specialized Python course, focusing on core programming concepts, object-oriented design, data structures, algorithms, and the foundational principles of neural networks with TensorFlow, preparing students for real-world challenges.
- Led the recruitment, training, and continuous development of new instructors, implementing a structured mentorship program that elevated teaching effectiveness and ensured high academic performance across the board.
- Spearheaded the organization of advanced workshops and collaborative training sessions, optimizing curriculum delivery and introducing innovative teaching methods to improve student engagement and learning outcomes.

KEY PROJECTS

[MERN Stack] El-Safqa — Financial Consultancy Platform for Saudi Stock Market Investors | [Hostinger Deployment](#)

- Developed a comprehensive platform for stock market investors, offering financial consultancy tools, stock tracking, and personalized investment advice.

[MERN Stack] RealEstate — Find Your Next PERFECT Place Easily! | [Github](#) | [Render.com Deployment](#)

- Built a dynamic real estate platform for users to search, view, and explore properties with advanced filtering options.

[Next.js] Book Store — Helps You Find Your Book! | [Github](#) | [Render.com Deployment](#)

- Created a book search and recommendation platform with intuitive navigation and advanced search functionality.

[Next.js] Promptopia — AI Prompting Tool to Discover the Modern World | [Github](#) | [Vercel.com Deployment](#)

- Designed an AI-driven platform to generate creative and innovative prompts for various use cases.

[React.js] YouTube Clone — Using YouTube-v3 API | [Github](#) | [Vercel.com Deployment](#) | [Rapid-API](#)

- Developed a fully functional YouTube clone featuring video search, playback, and user interaction through the YouTube-v3 API.

[React.js] Music Master — Using Spotify API | [Github](#) | [Vercel.com Deployment](#) | [Rapid-API](#)

- Created a music platform that allows users to search and stream music, discover playlists, and explore artist profiles using the Spotify API.

[TensorFlow & Keras] YOLO Car Detection Model | [Github](#)

- Developed a YOLO (You Only Look Once) model for real-time car detection, optimizing accuracy and performance.

[TensorFlow & Keras] Sign Language Identifier | [Github](#)

- Built a model to recognize and classify American Sign Language gestures, providing real-time communication assistance.

[TensorFlow & Keras] Mood Classifier | [Github](#)

- Developed a neural network model to classify emotions based on user input or facial expression data.

[TensorFlow & Keras] TL Alpaca Classifier | [Github](#)

- Created a classifier model to identify different types of alpacas from images, enhancing image recognition techniques.

[TensorFlow & Keras] CNN Model from Scratch | [Github](#)

- Built a Convolutional Neural Network (CNN) model from scratch for image classification tasks.

[TensorFlow & Keras] L-Layers NN Model from Scratch | [Github](#)

- Designed and implemented a neural network model from scratch, experimenting with multiple layers and activation functions for improved accuracy.

Graduation Project: Autistic Assistant Robot (LEVI) :

- Developed an intelligent robotic assistant using TensorFlow for deep learning, integrating custom hardware and software solutions to support children with Autism Spectrum Disorder (ASD), aged 3–10.
- Utilized Flutter for the mobile app, Node.js for backend services, SolidWorks for design, and 3D printing for component fabrication, achieving an Excellent score (95%).

CERTIFICATES

- **RESTful Web Services with Node.js, Express, and MongoDB** | ITI | 2023
- **IT Automation with Python Professional Certificate** | Google | 2023
- **Deep Learning Specialization** | DeepLearning.AI | 2022
- **IBM Data Science Professional Certificate** | IBM | 2021
- **Advanced Data Analysis Nanodegree** | Udacity (FWD) | 2021

EDUCATION

- **Bachelor's Degree in Computer Engineering** | Faculty of Engineering, Helwan University | Grade: Good (72%) | 2022

LANGUAGE

- **Arabic:** Native
- **English:** Excellent