

Mahdi Shehimi

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Computer Science graduate specializing in Machine Learning and Full-Stack Web Development. Proficient in training and deploying predictive data models while building robust web applications using React and Node.js. Experienced in handling the entire software pipeline, from database architecture and backend server logic to responsive user-facing interfaces. Actively seeking an entry-level Software Engineer or Data/ML role to build intelligent, scalable technical solutions.

Skills

- Programming Languages: JavaScript, Python, Java, C++, HTML, CSS
- Web Development: React.js, Next.js, Node.js, Express.js
- Database Management: MySQL – design, querying, optimization.
- Embedded Systems: Arduino – microcontroller programming, sensor integration.
- Networking: Understanding network protocols, configuration, troubleshooting.
- Software Engineering: Knowledge of software development life cycle (SDLC), version control, and testing methodologies.
- Computer Hardware: Diagnosing and repairing laptops and desktop PCs.
- Tools & Technologies: Visual Studio, Eclipse, Arduino IDE, Wireshark, Jupyter Notebook.
- Soft Skills: Problem-solving, attention to detail, adaptability, teamwork.

Education

Bachelor of Science in Computer Science
Lebanese International University (LIU), Beirut

Projects

Brain Tumor Detection | Machine Learning & Computer Vision

Developed a computer vision system utilizing the YOLOv8 architecture to accurately detect and localize brain tumors from medical MRI scan images.

Preprocessed image datasets, handled data augmentation, and trained the deep learning model to achieve precise bounding-box object detection.

Multi-Vendor E-Commerce Platform | Full-Stack Web Development

Built a comprehensive, multi-vendor online marketplace from scratch using Next.js for the front end and Node.js / Express.js for the backend.

Designed a secure relational database schema using SQL to manage separate users, vendors, product, and order tables.

Implemented authentication workflows allowing users to sign up as standard customers or onboard as verified vendors.

Full-Stack Movie Streaming Website

Designed a streaming website using React.js for frontend.

Developed a custom backend API layer with Node.js to fetch, stream, and manage media content seamlessly.

Structured a relational SQL database to handle media metadata, user watchlists, and streaming categories efficiently.

Fake News Detection | Natural Language Processing (NLP)

Built a text classification system using NLP techniques to analyze textual data and distinguish between genuine news and misinformation.

Cleaned and tokenized text datasets extracted linguistic features, and trained machine learning algorithms to perform binary sentiment/veracity classification. **Autonomous**

Arduino Mini Robot | Embedded Systems & Hardware

Programmed an interactive mini-robot using microcontrollers and written in C/C++ via the Arduino IDE.

Wired and integrated hardware peripherals including motor drivers, sensors (ultrasonic/infrared), and power management modules to handle autonomous navigation

Languages

English(fluent), Arabic (Native)