

Izzeddin Masri

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EDUCATION

karabuk university

Bachelor in Computer Engineering (Honor Student) | GPA: 3.26

Turkey, Karabuk

08/2021 – 06/2025

EXPERIENCE

Palestine Launchpad Hackathon — Google x SPARK

Hackathon Participant (Team 18 — AI Developer & Backend Lead)

- Participated in the “Personalized Math Problem Rewriting Using AI” challenge to make math more engaging by tailoring word problems to students’ interests like football, Minecraft, or wildlife.
- Led the AI architecture and backend development, implementing a Retrieval-Augmented Generation (RAG) pipeline using FAISS for similarity search and FastAPI for scalable API deployment.
- Collaborated with a cross-functional team in a high-pressure 4-day sprint to transform ideas into a functional prototype, culminating in a successful final pitch presentation.

Udacity

Nanodegree | AI Programming with Python and TensorFlow

10/2024 - 02/2025

- Successfully completed a rigorous AI Programming with Python and TensorFlow Nanodegree, covering 550+ key concepts, 40+ lessons, 120+ quizzes, and 4 projects.
- Strengthened skills in Python for AI, deep learning, and data analysis using NumPy, Pandas, and Matplotlib.
- Designed and trained deep learning models with TensorFlow, including a pre-trained image classifier and a neural network built from scratch.

PalSoft Company

Internship

Palestine

09/2024 - 12/2024

- Finished internship at PALSOFT Company, gaining hands-on experience in ASP.NET MVC Core development, including building and maintaining dynamic web applications

ScrambleBit company

Internship

Turkey

07/2024 - 08/2024

- Completed a 30-day internship at ScrambleBit Company in Istanbul, Turkey, focusing on front-end development.

Sevneighths Academy

Course

08/2023 - 02/2024

- Completed a 120-hour Full-Stack Development course with Sevneighths Academy.
- Gained expertise in Object-Oriented Programming (OOP) and Data Structures.

Projects

Real-Time Traffic Sign Detection System (Graduation Project)

- Built a real-time traffic sign detection system using a custom-trained YOLOv5 model, capable of recognizing Turkish road signs from webcam, images, or video feeds.
- Developed a desktop application with a PyQt5-based GUI, integrated with OpenCV for real-time video processing and detection visualization.

- Achieved high detection accuracy and performance, and earned the top rating among all final-year projects in the department.

Book Recommender System

- Developed an AI-powered book recommendation system using LangChain, Gradio, and Hugging Face Transformers to generate personalized book suggestions based on user input.
- Designed an interactive Gradio dashboard with natural language input and live feedback, deployed the backend on Render.com, and managed the project using GitHub.
- Implemented local caching and GPU support for performance, and enabled document chunking and vector storage for scalable retrieval.

MERN Stack Book Store Web Application

- Developed a full-featured e-commerce app using the MERN stack, with secure JWT authentication, and Firebase role-based access for users and admins.
- Built an interactive admin dashboard using Chart.js to monitor orders, sales, and inventory in real time.
- Deployed both frontend and backend on Vercel, leveraging Vite for performance and serverless functions for scalability.

Dog breeds identifier

- Built a Python application to identify dog breeds using a pre-trained image classifier.
- Leveraged machine learning and image recognition techniques to achieve accurate results.
- Demonstrated proficiency in Python programming and model integration.

Book Shop System

- Designed and developed a bookshop management system in Visual Studio using C#.
- Created an intuitive user interface for efficient inventory tracking, sales processing, and customer data management.

Self-Driving Car Simulation

- Developed a self-driving car simulation using pure JavaScript without libraries.
- Implemented a custom neural network for AI driving and manual keyboard control.
- Simulated sensors, collision detection, and real-time neural network visualization.

Skills

Web Development: HTML, CSS, JavaScript, TypeScript, React, Redux, Next.js, Bootstrap 5, Tailwind

Backend and Tools: Node.js, Express.js, Prisma, REST APIs, Git, GitHub, Firebase, Vercel, Postman

Databases: MySQL, SQL Server, MongoDB, PostgreSQL

Programming Languages: C#, Python, C++

Testing: Jest, Jasmine

Design & Productivity Tools: Canva, Notion, Figma, Miro, WordPress, Shopify

AI & ML Tools: Hugging Face Transformers, RAG, TensorFlow, OpenCV, FAISS

Languages: Native Arabic, proficient English