

OTHMAN AL BAKRI

Software Engineer

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<https://github.com/othman822>

SUMMARY

Software engineer specializing in AI, machine learning, and full-stack development. Led development on OSAT, an advanced analytics platform designed to deliver intelligent insights and real-world solutions. Independently created a Road Sign Detection system, applying deep learning and computer vision to achieve high-accuracy recognition for real-time applications. I build scalable, high-performance applications and intelligent models with a strong focus on precision, usability, and solving real-world problems.

PERSONAL PROJECTS

OSAT – AI-Powered Analytics Platform

- Led development of a full-stack platform delivering intelligent insights using machine learning and advanced analytics.
- Built scalable architecture with React, Node.js, and Python, improving system responsiveness and user engagement.
- Optimized AI models, significantly enhancing prediction accuracy and operational efficiency.

Road Sign Detection – Computer Vision Project

- Developed a deep learning model for real-time road sign detection using TensorFlow and OpenCV.
- Improved detection accuracy through data augmentation and hyperparameter tuning.
- Created a user-friendly testing interface to simulate real-world driving scenarios.

IT Task Management System – Java Application

- Designed and implemented a task management system using Java, leveraging priority queues for efficient task scheduling.
 - Integrated features for dynamic task assignment, priority handling, and deadline tracking.
 - Improved system reliability and performance through multithreading and object-oriented design principles
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EDUCATION

Beirut Arab University - BAU

B.S in Computer Science

June, 2025

Relevant Courses: Data Structures, OOP, Web Development, Applied AI, Computer Security.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript(React, Node.js), HTML, CSS, Java, SQL, Python

Frameworks & Tools: Cursor, Git/Github, Vite, React, Supabase (PostgreSQL)

Soft Skills: Strong Communication, Problem-Solving, Team Collaboration.

Languages: English (Fluent), Arabic (Native)