

Wael Kabouk

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Portfolio: wael-kabouk.vercel.app

Professional Summary

Software Engineer with a B.Sc. in Computer Engineering and an M.S. in Software Engineering. Specializes in full-stack development, computer vision, and scalable system design. Proficient in Agile methodologies, DevOps practices, and cloud-native technologies. Experienced in leading cross-functional teams and delivering high-performance solutions for web, mobile, and embedded systems.

Key Skills

Software Design: UML, System Design, SOLID, OOP, Clean Code

Programming: C/C++, Java, Python, JavaScript, Dart, SQL

Web/Mobile: Flutter, React/Next.js, Node.js, Spring Boot

Computer Vision & DL: YOLO, OpenCV, TensorFlow

Tools: AWS, Firebase, Git, Docker, MySQL, MongoDB

Soft Skills: Leadership, Teamwork, Communication, Presentation

Languages: Arabic (Native), English (C1), Turkish (B2)

Education

M.S. in Software Engineering

2023–2025

Sakarya University, Turkey

Thesis: Virtual Context-Based Multi-Camera Vehicle Tracking

Developing innovative, real-time processing techniques for multi-camera object detection.

B.Sc. in Computer Engineering

2019–2023

Mugla Sitki Kocman University, Turkey GPA: 3.62/4.0

Projects

Multi-Camera Object Tracking

2025

Real-time detection and tracking across multiple camera feeds using YOLOv11 and OpenCV.

Library Management System (MERN)

2024

Developed a system for managing library inventory and borrowing processes using Express.js, MongoDB, and React.js; deployed via Docker on AWS EC2.

Stereo Depth Estimation

2024

Implemented a depth estimation solution using parallel processing frameworks (CUDA, OpenMP, MPI, PThreads) to benchmark performance.

Telegram Chatbot

2024

Created a multi-language chatbot with pyTelegramBotAPI to improve student access to academic resources.

Vehicle Detection

2023

Developed a Python application for real-time vehicle counting and traffic analysis using YOLOv8 and OpenCV.

Hospital Management System

2022

Designed system architecture with UML for modeling business processes and data flows in a hospital environment.

Solar-Powered Irrigation

2022

Engineered an Arduino-based smart irrigation system that reduced water usage by 30%.

Experience

Web Developer

2023

Kyber Tech, Turkey

- Developed a full-stack web application using React.js/Next.js.
- Integrated Sanity.io as a headless CMS for efficient content management.

Mobile App Developer

2022

Mugla Sitki Kocman University, Turkey

- Built a multi-vendor e-commerce mobile app using Flutter and Express.js.
- Integrated MongoDB with Cloudinary for streamlined product image management.

Mobile App Tester

2021

Mugla Sitki Kocman University, Turkey

- Tested Android applications using Appium on both emulators and physical devices.
- Identified performance issues to ensure consistent cross-platform functionality.

Certifications & Conferences

- **GAT:** 99% score (Top analytical/quantitative performance)
- **Online Courses:** Completed several FreeCodeCamp courses on full-stack development, computer vision, and deep learning.
- **Conferences:** Attended LEAP and Global Labor Market Conference (GLMS) in Riyadh.

Volunteer Experience

Founder, Wasm Technology Community

2024–Present

Established and lead a community of over 200 students, providing mentorship and technical training.

Developer, Syrian Students Union

2023–2024

Enhanced management systems and developed a Telegram chatbot to streamline event coordination.

Course Instructor, Youth Center, Turkey

2022–2023

Coordinated by the Youth Center, I designed and taught programming fundamentals courses in Python, C++, and Java for local youth.