

AB KARIM HAMIDI

Full-Stack Developer (MERN / Next.js) | Computer Vision Engineer

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PROFESSIONAL SUMMARY

Software Engineer and Computer Science graduate with 4+ years of experience building production web applications and real-time computer vision systems. Full-stack expertise across React.js, Next.js, Node.js, Express.js and MongoDB, combined with Python AI engineering using OpenCV, MediaPipe, InsightFace, YOLOv8 and PyTorch. Skilled at designing REST APIs, JWT and role-based authentication, and integrating deep learning inference pipelines with web dashboards. Delivered learning management platforms, intrusion detection systems and real-time face recognition attendance solutions used in production.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C++, SQL, HTML5, CSS3

Frontend: React.js, Next.js (App Router), Redux, Tailwind CSS, Framer Motion, Responsive Design, UI/UX Implementation

Backend: Node.js, Express.js, FastAPI, REST API Design, JWT Authentication, Role-Based Access Control (RBAC), WebSockets, Server-Side Rendering

Databases: MongoDB, Mongoose, MySQL, Schema Design, Aggregation Pipelines

Computer Vision: OpenCV, MediaPipe, InsightFace, YOLOv8, Face Detection and Recognition, Face Liveness / Anti-Spoofing, Object Detection and Tracking, Pose Estimation, Hand Tracking, Real-Time Video Analytics, Image Processing

Machine Learning: PyTorch, scikit-learn, CNNs, KNN, Face Embeddings and Vector Matching, Dataset Preparation, Model Evaluation

Tools and Practices: Git, GitHub, Docker, Linux, Postman, Vercel, Agile / Scrum, Code Review, Debugging, Performance Optimization

PROFESSIONAL EXPERIENCE

Computer Vision Developer

Rahanet IT Company | Herat, Afghanistan | 11/2024 - 09/2025

- Developed real-time computer vision systems in Python with OpenCV and YOLO for surveillance, monitoring and analytics use cases.
- Built face recognition and object detection pipelines that identified and tracked people and vehicles from live video streams.
- Implemented people and vehicle counting modules on continuous camera feeds, replacing manual log keeping with automated reporting.
- Optimized detection models and frame-processing loops to run reliably on low-resource hardware without dropping frames.
- Integrated vision modules with backend services and web dashboards so operators could review alerts, screenshots and reports in one place.
- Collaborated with backend and frontend engineers to move vision features from prototype to production deployment.

Web Developer

Wassa Company | Herat, Afghanistan | 10/2023 - 07/2024

- Built responsive, cross-browser user interfaces with HTML5, CSS3, JavaScript and React.js.
- Implemented backend logic and integrated internal and third-party REST APIs.
- Improved page load performance and accessibility of existing pages through refactoring and component reuse.
- Worked closely with designers and QA to translate requirements into delivered features within project deadlines.

MERN Stack Web Developer

Farsrout Company | Herat, Afghanistan | 02/2022 - 08/2023

- Developed full-stack web applications using MongoDB, Express.js, React.js and Node.js.
- Designed and implemented REST APIs and authentication systems with JWT and role-based access control.
- Improved application performance and code quality through refactoring, code review and adoption of reusable component patterns.
- Collaborated with remote teams using Git and GitHub to deliver production-ready features.

KEY PROJECTS

Source code for all projects below: github.com/AbdullKarimHamidi

Real-Time Face Recognition Attendance System

Tech: Next.js, TypeScript, Python, FastAPI, InsightFace, OpenCV, MongoDB, Tailwind CSS

- Built an end-to-end attendance platform that detects and recognizes faces from live camera feeds and marks attendance automatically, removing manual roll call.
- Developed a Python recognition service that generates face embeddings with InsightFace and exposes REST endpoints consumed by a Next.js dashboard.
- Implemented secure multi-level, role-based management supporting multiple users and branches for organizations, IT centers and offices.

Intrusion Detection System

Tech: Python, YOLO, OpenCV, NumPy

- Developed a zone-based intrusion detection tool that lets operators draw custom restricted zones directly on a live video feed.
- Triggered real-time alerts and automatic screenshot capture with YOLO detection and tracking whenever a person entered a restricted zone.

Real-Time Face Liveness Detection (Anti-Spoofing)

Tech: Python, YOLOv8, PyTorch, OpenCV

- Trained and deployed a YOLOv8 deep learning model that distinguishes real faces from spoofed photo and screen attempts in real time.
- Prepared a custom labeled dataset and built the training and evaluation pipeline, delivering an anti-spoofing security layer for face recognition access control.

Learning Management System (LMS)

Tech: Next.js, TypeScript, MongoDB, Node.js, Tailwind CSS, JWT

- Built a full-featured LMS with separate role-based dashboards for administrators, instructors and students.
- Implemented course creation, enrollment, progress tracking and secure authentication with protected routes and server-side rendering for fast page loads.

Real-Time Basketball Analysis with Computer Vision

Tech: Python, YOLOv8, OpenCV, Object Tracking

- Detected and tracked players and the ball from match footage, visualizing movement trajectories through a reusable video processing and annotation pipeline.

AI Interview Platform

Tech: Next.js, TypeScript, Node.js, MongoDB, AI APIs

- Developed a platform that simulates real job interviews with AI-generated questions and structured feedback, plus authentication and per-user interview history.

ADDITIONAL PROJECTS

- Computer Vision Tools - Python, MediaPipe, OpenCV, scikit-learn: face anonymizer / privacy filter, real-time hand tracking (21 landmarks), full-body pose estimation and a KNN face recognition attendance logger.
- MERN E-Commerce Application - React.js, Node.js, Express.js, MongoDB: product catalog, cart, checkout flow and admin product management over REST APIs.
- Movie Streaming Website - React.js, Node.js, MongoDB: movie catalog with search, genre filtering and detail pages backed by a REST API.
- Doctor Appointment System, Real Estate Agency Platform and Developer Portfolio - React.js, Next.js, MongoDB, Tailwind CSS: booking, listing and personal-brand applications with fully responsive interfaces.

EDUCATION

Bachelor of Science (BSc) in Computer Science

Ghalib University | Herat, Afghanistan | 2020 - 2024

- Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Operating Systems, Artificial Intelligence.

CERTIFICATIONS

- MERN Stack Development Certification - Wassa (2023)

LANGUAGES

Persian (Native) | English (Professional Working Proficiency) | Arabic (Intermediate)