

Imad Charradi

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Summary

AI Software Engineer with expertise in full-stack AI agent systems, computer vision, and backend architectures. Proficient in Python, Java, JavaScript, PyTorch, OpenCV, and Django. Proven track record building production-ready automation pipelines, real-time CV monitoring, and high-accuracy ML models.

Education

Xi'an Electronic Science and Technology University Sep 2026 - Jun 2029
Master's of Science Artificial Intelligence and Technology

China Jiliang University Sep 2022 - Jun 2026
Bachelor's of Engineering Computer Science and Technology
GPA: 86.3%

- Awarded Merit Based Scholarships 4 years in a row.

Work Experience

AI Agent Engineer (E-commerce Automation) Jan 2026 - May 2026
Hangzhou Mokolili Technology Co., Ltd. | Hangzhou, Zhejiang, China

- Architected and developed full-stack AI agent systems to automate multi-modal media generation (image, video, text).
- Engineered robust API integration pipelines, web scrapers, and n8n workflows for automated content processing.
- Designed website architecture and managed end-to-end self-hosting, testing, and deployment of production-oriented AI automation solutions.

Python Engineer Intern (R&D) May 2025 - Sep 2025
DRONEMAR Morocco | Casablanca

- Worked on backend development, data processing pipelines, and system integration for autonomous drone operations.
- Contributed to the Drone Autonomous Flight monitoring platform development as a Python engineer in the research and development department.
- Developed and implemented features for real-time drone flight monitoring and data analysis systems.

Information Systems and Data Support Intern Jun 2024 - Sep 2024
JAD CARROSSERIE | Casablanca

- Automated internal workflows and data processing using Python scripts, saving 10+ hours of manual reporting tasks weekly.
- Structured and managed MySQL databases for document digitization, querying, and routine reporting activities.
- Supported digital transformation initiatives by resolving technical issues and modernizing legacy document systems.

Skills

Programming Languages

Python, Java, JavaScript, HTML, CSS, TypeScript

AI & ML & Computer Vision

PyTorch, TensorFlow, OpenCV, YOLO, Scikit-learn, Prompt Engineering, Vector Databases, Embedding Models, RAG, Multi-Agent Systems

Backend & Software Engineering

Django, REST APIs, Microservices, n8n, System Design, SQL

Databases & Cloud

MySQL, PostgreSQL, SQLite, Apache Spark, Hadoop, AWS (S3) Object Storage

DevOps & Infrastructure

Docker, Docker Compose, Linux, Nginx, Git, CI/CD Fundamentals

Projects

Traffic Analysis & Vehicle Detection System (Thesis Project)

Computer Vision, PyTorch, YOLO, OpenCV, Python

- Developed an end-to-end computer vision pipeline for real-time traffic monitoring, multi-object tracking, and rule-violation detection.
- Fine-tuned custom object detection models to classify vehicle attributes (speed, color, direction, violation type) adapted to complex road conditions.
- Optimized frame-processing efficiency using signal-processing techniques to increase inference speed for live video streams.

Predictive maintenance for Industrial Equipment (AI Course Final Project)

Machine Learning, Python, XGBoost, Scikit-Learn, Pandas

- Built an end-to-end ML pipeline on 10,000 industrial sensor samples to predict binary equipment faults using XGBoost and Random Forest.
- Handled severe class imbalance using SMOTE, feature engineering, and cross-validation, achieving 98%+ accuracy and F1-score.

Voice Assistant with Mood Detection (IoT Project)

IoT, Computer Vision, Embedded Systems, Python, APIs

- Built a hardware assistant that analyzes facial features to detect user emotion.
- Integrated low-latency API communication between the embedded edge device and a local processing server

Online Examination System

Django, REST APIs, PostgreSQL/MySQL, Python

- Designed a secure, role-based web platform for automated exam grading with real-time analytics dashboards.
- Engineered RESTful APIs with custom authentication and scalable database schema using Django ORM.

Volunteer

Project Leader
ENACTUS
Led economic empowerment initiatives, guiding cross-functional student teams to deploy sustainable community projects.

Sep 2020 - Jun 2022

Team Member
AIESEC
Worked within the B2C team in the marketing department in AIESEC Agadir. Focused on getting leads and conversion, helping the youth find opportunities worldwide.

Feb 2022 - Jun 2022

Certificates

Machine Learning Specialization By Andrew Ng (Coursera)
Intermediate Machine Learning (Kaggle)
ALX Back-End Web Development (ALX Academy)
ALX Foundations (ALX Academy)
Responsive Web Design (freeCodeCamp)

Jul 2026
Sep 2025
Apr 2025
Sep 2024
Aug 2024

Languages

Arabic (Native), English (C1), French (C1), Chinese (Mandarin) (HSK 4), Spanish (B1)