

# Mehran Rajabi

📍 Hamburg, Germany

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**Summary:** Dedicated Web and Software Developer with a strong focus on full-stack development and a growing specialization in Artificial Intelligence. I combine clean software architecture with practical implementation (APIs, data pipelines, deployment) and enjoy building production-ready solutions that deliver measurable value.

## EDUCATION

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10-2025 – Present

### M.Sc. Intelligent Adaptive Systems / Artificial Intelligence

*University of Hamburg, Germany*

- Specializing in neural networks, deep learning architectures, and adaptive algorithms for intelligent decision-making.
- Acquiring advanced expertise in computer vision, image processing, and real-time pattern recognition.
- Developing and training machine learning models using Python, TensorFlow, and PyTorch in academic research settings.

01-2015 – 02-2020

### B.Sc. Information Technology

*ACECR Institute of Higher Education (Isfahan, Iran)*

- Developed a broad software engineering foundation in C++, C#, ASP.NET, Web API, SQL Server, and modern web development, with hands-on experience building applications from scratch.
- Worked on team-based academic projects in software architecture, Android development, IoT with Arduino and ESP modules, and introductory AI and expert systems.

## PROFESSIONAL EXPERIENCE

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05-2022 – 10-2025

### Monitoring Device Developer — *Shahrekord Carbon Dioxide, Iran*

- Architected an ASP.NET Core IoT platform connecting 100+ ESP32 devices for real-time industrial CO2 tracking.
- Engineered data pipelines polling 80+ tanks per second, eliminating manual inspections and saving 10 hours of weekly labor.
- Orchestrated LAN/Wi-Fi protocols with a 99.9% data transmission success rate to a backend supporting 20+ daily users.

12-2020 – 03-2021

### Software developer — *Radshid, Isfahan, Iran*

- Spearheaded a Cordova/React.js mobile app for live tracking and remote management of 1,000+ active sensors and vehicles.
- Designed remote security controls and a centralized dashboard, empowering logistics clients to safely monitor 200+ nationwide trucks.
- Programmed a C# Windows Service automating file organization, processing 100+ daily files to cut 8 hours of weekly maintenance and save 10% storage.
- Overhauled legacy server code using Onion Architecture and OOP principles, significantly accelerating feature delivery cycles.

12-2019 – 02-2020

### Web Developer (Internship) — *Majdafzar Persian, Isfahan, Iran*

- Constructed a full-stack ASP.NET Core/SQL Server app with service-layer design to digitize contract workflows for 10+ business cases.
- Formulated EF Code First database schemas and shipped 15+ responsive CRUD interfaces using Bootstrap and JavaScript.
- Launched and customized 5+ WordPress websites, tailoring page structures and content to specific client requirements.

01-2017 – 09-2018

### WordPress Developer — *Mrwordpress, Isfahan, Iran*

- Localized 20+ themes and plugins into Persian, engineering full RTL layout compatibility to boost UI usability.
- Tailored PHP backend logic and page structures across 10+ client websites to align with business and design goals.

## SOFTWARE & PROJECTS

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Anki Dictionary Automation (Gemini / LLM-Integration) [🔗](#)

- Developed a CLI tool to automate Anki flashcard creation by fetching and transforming vocabulary data.
- Integrated Gemini API to generate and structure definitions/examples; normalized outputs into Anki-compatible fields.

### Real-time Video Smile Detection (LeNet) [🔗](#)

- Orchestrated the creation of a LeNet-based model for smile detection, achieving 99.9% uptime, integrated an inference pipeline and improved model accuracy by 11% after fixing edge cases.

### Photo Smile Detection (HOG/LBP/SVM) [🔗](#)

- Implemented a classical CV/ML pipeline using HOG/LBP feature extraction and an SVM classifier for smile detection.

### Restaurant Revenue Prediction (KNN) [🔗](#)

- Developed a KNN-based approach to predict restaurant revenue from tabular data, handling feature engineering and evaluation.

### Image Colors Clustering (k-means) [🔗](#)

- Applied k-means clustering to segment dominant colors and generate simplified color palettes for images.

### Cooler IoT — Smart Home Control App (ESP32 & Cordova) [🔗](#)

- Developed an IoT solution (ESP32 server-side, Apache Cordova client-side) to improve the efficiency of water-based cooling systems.
- Built a cross-platform app with timers, scheduling, temperature-based automation, and statistical data analysis over local Wi-Fi.

### Diet-Macro-Tracker (Apache Cordova) [🔗](#)

- Developed a lightweight, fully client-side application for tracking macronutrients (proteins, carbs, fats).
- Implemented a Persian (RTL) UI with dark/light themes, utilizing LocalStorage for persistence and integrating an external JSON food database.

### Selected Web Development Projects (WordPress / ASP.NET)

- Developed and deployed multiple e-commerce and corporate websites focusing on UX design and theme/plugin customization.
- Implemented ASP.NET-based features for business workflows, including CRUD operations and role-based processes.

## SKILLS

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### Artificial Intelligence & Data Analysis

Machine Learning (Supervised/Unsupervised), Computer Vision, Predictive Modeling, Feature Engineering

### Programming & Web Development

Python, C#, Java, C++, JavaScript, HTML/CSS, SQL, ASP.NET, React.js, Web API, SignalR

### AI Frameworks & Libraries

TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, OpenCV

### Software Engineering & Tools

OOP, MVC, Docker, Git, Entity Framework, Apache Cordova, Arduino (ESP32/IoT)

## LANGUAGES

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Persian	Native
English	B2 (IELTS 6.5) <a href="#">🔗</a>
German	B1

## CERTIFICATES

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09-2023	<b>Artificial Intelligence Course</b> — <i>Mehregan Institute</i> <a href="#">🔗</a>
09-2023	<b>Practical AI with Python Certificate</b> — <i>Iranian TVTO</i>
11-2018	<b>PHP Certification</b> — <i>Sololearn</i> <a href="#">🔗</a>
09-2017	<b>Java Certification</b> — <i>ACECR Educational Institute</i> <a href="#">🔗</a>

## INTERESTS

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- Machine Learning & Applied AI
- Computer Vision
- IoT & Edge (ESP32/Arduino)
- LLM Integration & Automation
- Backend & Web APIs
- Data Pipelines & Deployment