Mahdi Mirzaei

Software Engineer | .NET Backend & Industrial IoT

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Professional Summary

Software engineer specializing in C#/.NET backend systems, API and ERP integration, and industrial IoT. Experience spans CRM, B2B platforms, e-commerce, and manufacturing. Builds software that translates machine telemetry into production, downtime, and quality-control events.

Professional Experience

Paivand (a System Group subsidiary)

Software Engineer, Industrial & Backend Systems | Oct 2023–Oct 2026

- Yazd Tire: Designed and implemented IIoT software covering 11 production lines and approximately 75 machines. Built configurable state-machine processing for production and downtime using data from 10,000+ registers sampled roughly every 15 seconds, and integrated production confirmations with Rahkaran ERP.
- Clever Quality Control: Developed telemetry processing for 408 refrigerator test stations supporting approximately 410 products per day. Used power and temperature readings to identify compressor cycles, defrost events, and heater activity.
- Clever Warehouse: Designed warehouse execution software that integrated real-time asset location data across four floors and approximately 4,000 refrigerators. Modeled warehouses, floors, and zones for asset tracking.
- Namakaran: Designed monitoring for approximately 60 machines, including legacy equipment without PLC or Ethernet connectivity. Used current sensing to derive machine activity and integrated production data with Rahkaran ERP.
- Meraj Tejarat Atiyeh: Developed furnace-monitoring software that tracked billet-heating trends and calculated readiness indicators for rolling operations.

Arnatel — Software Developer / Project Manager

Jun 2018–Jun 2019

- Developed and refactored the Arnamall e-commerce platform. Took on backend development and project coordination in the final months.
- Built the UI, backend, and APIs for an iOS exhibition app delivered in two weeks.
- Worked on an anti-cheating pedometer project in January 2019.

Tejarat Electronic Aval Project — Full-Stack Developer

Aug 2017–May 2018

- Developed ASP.NET MVC features for a B2B web platform, working across application logic and database-backed workflows.

PayamGostar — Full-Stack Developer Intern

Jul 2016–Jul 2017

- Debugged and maintained an established CRM application built with ASP.NET Web Forms.

Research Projects

Gait Data Analysis — Amirkabir University of Technology | 2021

Worked on generating synthetic samples from limited real-world gait data using a GAN and combining decision trees with k-means clustering to personalize activity-recognition models.

Technical Skills

Backend and data: C#, .NET, ASP.NET Core, REST APIs, Entity Framework Core, SQL Server, T-SQL, PostgreSQL

Industrial systems: MQTT, Modbus TCP, RS-485, OPC UA, ThingsBoard, time-series processing, state machines, RTLS, ERP integration

Education & Languages

Bachelor's in Software Engineering — Islamic Azad University, Karaj Branch | August 2020

English: Professional working proficiency · IELTS Academic 7.5, May 2021