

# MOHSEN JAFARI

Beachwood, Ohio

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*Software Engineer, Software Developer, Full-Stack Developer, Data Engineer*

## SKILLS

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- **AL, Machine Learning, Python, .NET Core, C#, C++, Java, ASP.NET, MVC, MySQL, MongoDB, SQL Server, PostgreSQL, Agile, Parallel Programming, Azure, Cloud, Git, JavaScript, CSS, React, Angular**

## PROFESSIONAL EXPERIENCE

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Co-Ax Technology

Nov 2024 – Now

### Software Engineer

- Co-developed an AI-powered cost prediction system for electronic board manufacturing, using historical production data (components, labor, testing) to train predictive models.
- Designed and implemented machine learning algorithms, contributing to full-stack development, data pipelines, and backend logic for accurate cost estimation.
- Led model evaluation and research on AI techniques, delivering a scalable solution aimed at improving planning and transparency for small to mid-sized manufacturers.
- Developed a web-based solution to streamline current workflows, replacing old data storage with SQL Server tables.
- Developed web applications using ASP.NET MVC that interact with Epicor **REST APIs**, enabling system integration without relying on Epicor's native software.
- Maintained and extended the **Epicor ERP** system, adding new modules, optimizing, and ensuring seamless operations.
- Upgraded Epicor ERP versions to **Kinetics**, ensuring compatibility with updated databases and improving performance.

Paraillel

May 2024 - Sep 2024

### Full-Stack Developer

- Integrated large language models (LLMs) and NLP tools like ChatGPT to assist educators in generating, organizing, and customizing teaching materials, enhancing instructional planning through AI-driven content support.
- Developed RESTful APIs using Flask (Python) to enable seamless communication between a React-based front end and AI-enhanced back-end services using MySQL databases.

Bowling Green State University, Bowling Green, OH

Aug 2023 - April 2024

### Graduate Research Assistant

- Created a project aimed at classifying user reviews on Google Play using NLP techniques to extract features from reviews.
- Designed and developed a system written in Python, utilizing regression models to enhance Insurance Premium Prediction through the integration of clustering and interpretable machine learning models.
- Served as a Teaching Assistant for the computer science courses, including C++ and Python.

Novin Hi-Tech Solutions

Sep 2010 - Dec 2022

### Software Developer

- Gained extensive experience in developing and maintaining **banking** software, hardware, and network infrastructure.
- Developed over 10 programs for the banking and industrial sectors, utilizing .Net, C# (WinForms and Web applications) and various database technologies such as SQL Server, Oracle, and MySQL. These applications automated key business processes, optimized performance, and enhanced data accuracy.
- Created "**Preventive Maintenance**" and "**Discrepancy Finder**" software by .Net Core and MVC technology, which significantly improved operational efficiency by identifying potential issues before they occurred, reducing manual tasks for employees.
- Proficient in converting and migrating data across platforms, ensuring seamless data integration for advanced analysis and decision-making processes. Improved data accessibility and accuracy, enabling stakeholders to make informed decisions.

- Modernized and upgraded several project websites using React, Angular, and optimized back-end performance with scalable databases such as PostgreSQL. Improved responsiveness, security, and implemented RESTful APIs and encryption techniques.
- Participated in projects utilizing regression models and **ML** techniques to predict and identify valuable customers and employees, based on features like sentiment analysis and performance indicators.

Khorasan Ashena Afzar

Dec 2007 - Apr 2009

#### Software Developer

- Designed and developed software providing an IDE for report design, utilizing company data.
- The project had the capability to design and generate dynamic reports using **OOP** principles and component-based design.
- This project was notably **innovative** for its time, significantly reducing both time and costs associated with report creation by developers while **empowering users** with intuitive design capabilities.

## EDUCATION

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Bowling Green State University, Bowling Green, OH	Master's, Computer Science	Jan 2023 - April 2024
Ferdowsi University	Master's, Information Technology Management	Sep 2015 - Jul 2017
Azad University	Bachelor, Software Engineering	Sep 1999 - Sep 2003

## HONORS & AWARDS

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- **Fully Funded Graduate Scholarship with Stipend** **Bowling Green State University** **2023–2024**  
Awarded a full scholarship including tuition coverage and annual stipend for outstanding academic performance and research contribution.

## PUBLICATION

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- **Prioritizing App Reviews for Developer Responses on Google Play**  
<https://doi.org/10.18293/DMSVIVA2024-153>
- **Dynamic classification using the adaptive competitive algorithm for breast cancer detection**  
<https://doi.org/10.4236/jdaip.2025.132006>.