Mohammad Javad Bahonar

Contact

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Languages

Persian - Native or bilingual proficiency
English - Full professional proficiency
Arabic - Elementary proficiency

Technical Skills

- Programming Languages: Python, MATLAB, PHP, C++
- Project Management
- Operating systems: Windows, Linux (Ubuntu)
- Machine learning: scikit-learn
- Deep Learning: deal.II
- SQL
- Software: AutoCAD, ETABS, SAFE, ABAQUS, MS Office, MS project, WaterCAD, SwerCAD
- Web Design, WordPress
- LATEX

Summary

I am an experienced **Civil Engineer** with a robust background in **computer programming** and a fervent interest in machine learning. With over a decade of hands-on experience, I hold **B.Sc.** and **M.Sc.** degrees in **Civil Engineering** from Isfahan University and Yazd University, Iran. Also, I am Proficient in an array of **programming languages**. My research endeavors converge Civil Engineering and Computer Programming, contributing to an interdisciplinary approach.

Currently, I am actively immersed in a **machine learning project** aligned with **Civil Engineering** and devoted to unlocking its potential within the field. I am passionate about pioneering innovative solutions and consistently seek to expand my horizons.

Education

- Master's Degree, **Structural Engineering** – Dec 2016
  Yazd University, Yazd, Iran
  Thesis title: Solving linear and non-linear time-dependent problems for solid mechanics using the generalized exponential basis functions (GEBF)

- Bachelor of Science (BS): **Civil Engineering** – 2014
  University of Isfahan, Isfahan, Iran

Publications

- **Solving time-dependent problems using the generalized exponential basis functions method. Modares Mechanical Engineering -** Modares Mechanical Engineering

- **FEM Analysis and Design of concrete bridge's abutment by Strut and Tie method according to ACI 318 -** International Conference on New Materials and Structures in Civil Engineering

Fields of Interest

- Computer Programming
- Numerical methods (finite element and meshless methods)
- Scientific programming of numerical methods
- Machine Learning and deep learning
- Structural Analysis

Soft Skills

- Creative Problem Solver
- Strong Communicator
- Analytical Thinker
- Collaborative
- Effective Team Player
- Self-Motivated
- Continuous Learner
- Adaptable
- Interpersonal Skills
- Dependable

Honors & Awards

- 2nd place in Isfahan provincial ACM competitions in 2011
- 2nd place in the provincial spaghetti bridge competition in 2012
- 4th place in the national spaghetti bridge competition of Amirkabir University in 2013
- Teacher Assistant in Computer Applications in Civil Engineering
- Member of Iran's National Elites Foundation
- Board member of the Scientific Society of Civil Engineering, University of Isfahan, 2011-2012
- Teaching and holding workshops for AutoCAD, Excel, ETABS, etc. at Isfahan University, Yazd University, Kelid Omran Institute, NCI,I was teaching and other Institutes in Isfahan.

Experience

- ❖ **Project Manager** Aug 2018 - present
  Poyesh Pardis Pezeshki Company, Iran
  I managed operating room construction and renovation projects at Poyesh Pardis Medical Company, a key player in the medical mndustry. I led successful completion of over 10 projects across multiple hospitals, encompassing 30+ operating rooms. I demonstrated strong management skills and contributed significantly to achieving company objectives during a tenure of 5 years. For more information visit my portfolio.

- ❖ **Manager of the online software development team**
  Feb 2017 - Apr 2018 - 2019
  Arman Research Institute, Iran
  I led the establishment and development of an innovative Online Journal Management System as a Computer Engineering Team Leader. I created a comprehensive platform enabling global journals to seamlessly manage the end-to-end article submission process, covering all dependencies from initiation to completion.

- ❖ **Web Designer (Freelancer)** 2013 – Present
  Freelanced in web design and development, creating visually appealing and functional web pages for diverse clients. Proficiently translated client visions into dynamic online platforms, ensuring seamless navigation and user experience.

Certifications

- **Neural Networks and Deep Learning**
  Coursera *Mar 2023*
- **Supervised Machine Learning: Regression and Classification**
  Coursera *Oct 2022*
- **Object Oriented Application Development**
  NIIT *Sep 2007*
- **Designing & Implementing with SQL Server**
  NIIT *Aug 2007*
- **C#.Net**
  NIIT *Aug 2007*
- **Autodesk Certified User: AutoCAD**
  Mehregan Institute *2012*
- **Building Supervision License**
  Esfahan Construction Engineering Organization *Mar 2022*