

Sajed Zarinpour

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Education

2018-2020

Institute for Advanced Studies in Basic Sciences, Iran

M.Sc. in Applied Mathematics

Numerical Method for Solving PDEs with Uncertainty Using Neural-Network

2012 - 2017

University of Guilan, Iran

B.Sc. in Applied Mathematics

Study on GMDH Algorithm for Stock Price

Experiences

January 2021

October 2023

December 2020

August 2021

3rd Lieutenant (compulsory Military Service)

Iranian Traffic Police , Tehran

Senior Backend Developer

Tavana System , Zanjan

- Innovated solutions for intricate technical quandaries for 8 modules
- Achieved effective task delegation to my team of 4
- Conducted regular meetings
- Mastered RDBMS such as MSSQL through extensive work
- Resolved complex disputes by actively listening and facilitating open dialogue, resulting in mutually beneficial agreements that improved team dynamics and productivity by 30%
- Upgraded the reporting system using Stimulsoft to improve the quality of reports

April 2017

May 2020

Web Developer

ZarinSoft , Rasht

- Contributed to the developer community in Stackoverflow to reach the top 30% users by 1204 overall reputation
- Designed strategies based on Agile methodology
- Fostered the growth of members' skills through periodic learning/Q&A sessions
- Developed and maintained a couple of monolithic applications using PHP and Laravel Framework
- Launched Bazarati startup using LAMP stack and Laravel Framework
- Conducted regular website updates and maintenance to ensure functionality and usability

June 2010

March 2017

Freelancer

Freelancer , Bandar Anzali

- Produced Mahsa integrated library system via VB.NET and MSSQL for a private library that housed nearly three thousand books, increasing their efficiency by 10%
- Innovated a new definition of graphs to solve the classical NP-hard problem of number partitioning implemented in C++
- Coded a mini CSS and JS framework called My-Zebra that sped up my web production by 25%
- Implemented a mathematical expression runtime using C++ to showcase a profound numerical solver to my professors

Research & Interests

- Numerical Analysis
- Finite Element Method
- Mathematical Modeling & Inverse Problems
- Neural-Networks & Deep Learning
- Biological Systems & Oncology

Schools & Conferences

Attendant

January 2019 **From Biophysical Modeling to Simulation Codes (Winter School)**
Graz university, Isfahan University of Technology

March 2019 **Introduction to Data Science in R**
Institute for Advanced Studies in Basic Sciences

2020 **Solving inverse problems with deep learning**
UC Berkeley Applied Math Seminar

2020, 2021 **One World IMAGINE seminars**
Siam

2021 **An Introduction to Variational Analysis (Summer School)**
Miami University, Urumia University of Technology

Presenter

2020 **IASBS Student Presentations in English**
Institute for Advanced Studies in Basic Sciences

Skills

Languages

Persian - **Native**

French - **Intermediate**

English

According to [European language levels](#): Basic user (A1, A2) - Independent user (B1, B2) - Proficient user (C1, C2)

Understanding

- Listening - **C1**
- Reading - **B2**

Speaking

- Spoken Interaction - **C1**
- Spoken Production - **C1**

Writing - **C1**

Computer Skills

• C++ • Python • MATLAB • Julia • Keras • TensorFlow • Numpy • Pandas • Freefem++ • NgSolve • Linux • git • Nodejs • RDBMS
• Laravel

References

Available on Request