

# Sajed Zarinpour

## Address:

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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

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

## Schools & Conferences

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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

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### 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

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Available on Request