

Ali Jafari

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Education

2022_10 –
2024_05

Master of Science in Biotechnology Engineering

Amirkabir University of Technology (AUT), Tehran, Iran (Ranked 7th best global universities in Iran based on [U.S.News](#))

Note: Received full scholarship from Amirkabir University of Technology (Tuition Waiver)

CGPA: 16.18/20

Thesis: Modeling and prediction of pretreatment method on VFA production from lignocellulosic biomass by use of artificial intelligence

Supervisor: Dr. Narges Fallah

2016_09 –
2020_09

Bachelor of Science in Chemical Engineering

University of Tehran (UT), Tehran, Iran (Ranked 1st best global universities in Iran based on [U.S.News](#))

Note: Received full scholarship from University of Tehran (Tuition Waiver)

CGPA: 16.04/20

Thesis: Research and study of antiviral and antibacterial properties of chemical compounds of copper

Supervisor: Dr. Abdolmajid Bayandori Moghaddam



Selected Courses

Computer Programming 19/20

Calculus 1 19.08/20

Thermodynamics 1 18.5/20

Differential Equations 20/20

Calculus 2 18.04/20

Industrial Drawing 1 20/20



Awards & Honors

- Ranked 22nd in the Iranian university entrance exam for a master's degree in biotechnology engineering
- Ranked 1st GPA in academic year 2016-2017



Research Interests

- Machine Learning
- Artificial Intelligence
- Microbial Products
- Bioinformatics



Experience

Teaching Experience

- 2022_06 - **Teaching Mathematics, Physics, and Chemistry to High School Students**
2022_08
- 2019_02 - **Teaching Assistant of Application of Mathematics in Chemical Engineering using MATLAB**
2019-06
University of Tehran, Tehran, Iran
- 2018_09 - **Teaching Assistant of Fluid Mechanics Modeling using ANSYS Fluent**
2019_01
University of Tehran, Tehran, Iran
- 2017_02 - **Teaching Assistant in Industrial Drawing using CATIA**
2017_06
University of Tehran, Tehran, Iran

Industry Experience

- 2023_03 - **Mid-Level .NET Back-End Web Developer**
Present
Learned: C#.NET, ASP.NET, T-SQL, Clean Code Concepts, Building Maintainable Software, Code Refactoring
Chargoos, Tehran, Iran
- 2021_09 - **Junior .NET Back-End Web Developer**
2023_03
Learned: C#.NET, ASP.NET, T-SQL, Clean Code Concepts
Chargoos, Tehran, Iran
- 2021_01 - **.NET Back-End Web Developer Internship**
2021_08
Learned: C#.NET, ASP.NET, T-SQL
Chargoos, Tehran, Iran
- 2019_09 - **Windows Application Developer**
2020-10
Learned: VB.NET, VBA, Excel Micro, CATIA
Sarvak Drilling Services, Tehran, Iran

2019_07 -
2019_08

Chemical Engineering Internship

Learned: Fluid Mechanics Concepts, HSE Concepts, Research and Develop Concepts
Sarvak Drilling Services, Tehran, Iran



Projects

- **Heat Transfer During Solid-state Fermentation Modeled Mathematically**
In this project, heat transfer formulas were developed mathematically to model the fermentation heat transfer system.
- **Modeled Simple Waste Water Treatment Process using BioWin**
In this project, a simple wastewater treatment process was designed and modeled to calculate biological information like COD, BOD, etc.
- **The Thermodynamic Properties of The Water-Ammonia Mixture Modeled by Three Different Approaches**
In this project, thermodynamic properties of water-ammonia mixture formulas developed and developed formulas used to model the system in MATLAB.
- **Recombinant Human Insulin Production Feasibility Study Written**
This project's feasibility study of producing recombinant human insulin in Iran was studied.
- **Sarvak Hydraulics Windows Form Application Developed**
In this project, a Windows form application was developed using VB.NET programming language to calculate the hydraulics properties of mud, cement, and other fluids that are used in oil well drilling. This application is named Sarvak Hydraulics.
- **Rose Essential Oil Production Feasibility Study Written**
In this project, the feasibility study of producing rose essential oil in Iran was studied and the production process was designed.
- **Fluid Mechanics Modeled**
In this project, fluid mechanics around some objects are modeled in ANSYS Fluent.



Workshops & Seminars

- **CS50AI**
Harvard University
<https://cs50.harvard.edu/certificates/cad015f6-1464-4aeb-9a64-0be7fbba699a>
2023-12
- **CS50P**
Harvard University
<https://cs50.harvard.edu/certificates/cb3abd94-1eca-4fac-b29b-9dd65c92dbf3>
2023-10
- **CS50x 2023**

Harvard University

<https://cs50.harvard.edu/certificates/13d354da-b167-4c51-82f6-c7db441e2dc3>

2023-09

- **Machine Learning with Python Workshop**

Amirkabir University of Technology, Tehran, Iran

2022-07-13

- **Heat Exchanger Design Workshop**

University of Tehran, Tehran, Iran

2022-02

- **Nanotechnology in topics of (Synthesis, application) Seminar**

Dr. Shahid Chamran's research center of Nanotechnology Guilan branch

2017



Skills

Language Skills

- **English**
The IELTS exam will be taken soon
- **Persian**
Native language
- **Turkish**
Native language

Computer Skills

Software

- Adobe Photoshop
- Adobe Premiere
- EndNote
- Linux
- ANSYS
- BioWin
- Minitab Statistical Software
- Mendeley Reference Manager
- Microsoft Excel
- Microsoft Word
- CATIA
- Microsoft PowerPoint

Programming Languages

- C#.NET
- VB.NET
- PHP
- VBA
- Python
- ASP.NET
- MATLAB
- T-SQL



Hobbies

- Gym
- Trading
- Poetry
- Mountaineering
- Book Reading
- Programming



References

- 1) Dr. Narges Fallah. Associate Professor, Department of Chemical Engineering, Amirkabir University of Technology, Tehran, Iran
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