

# Pooya Barazandeh

[Barazandehpooya@gmail.com](mailto:Barazandehpooya@gmail.com)

## EDUCATION

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### Amirkabir University of Technology

Computer Science GPA = 19.7

Iran, Tehran

Sep. 2022 – Present

## EXPERIENCE

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### Undergraduate Teacher Assistant

Amirkabir University of Technology

- data structures and algorithms
- Basic Programming
- Foundation of Mathematics
- Artificial Intelligence and workshop
- Principles of computer systems
- Numerical Linear Algebra
- operating systems(in Tehran University)

Sep 2023 – Present

Iran, Tehran

### Undergraduate Teacher Assistant Grader

Amirkabir University of Technology

- data structures and algorithms
- Basic Programming
- Foundation of Mathematics
- Foundation of Combinatorics
- Math 1

Jan 2023 – Present

Iran, Tehran

### Information Technology Support Specialist

Rastanovin Raya

- Frontend Developer
- Internship

July. 2023 – Sep. 2023

Iran, Tehran

### AI Developer (Part-time)

Rastanovin Raya

- Developing and deploying AI solutions for real-world business applications
- Working on part-time research and implementation of AI/ML projects

Sep. 2024 – Present

Iran, Tehran

### certifications

- Algorithm Arena
- scrum/agile
- Top-ranked participant in Quera Fito Hackathon

Jan 2023 – Present

Iran, Tehran

## UNIVERSITY ACTIVITIES

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### Scientific Association Member

Amirkabir University of Technology

- Organizing technical workshops and events
- Helping students with academic projects
- Collaborating with faculty members on scientific initiatives

May 2024 – Present

Iran, Tehran

## PROJECTS

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<b>Sabad</b>   <i>JavaScript, React, PostgreSQL, Nodejs</i>	July. 2023 – Sep. 2023
<ul style="list-style-type: none"><li>Developed a full-stack online shopping website using with JavaScript with React as the frontend and Nodejs as the backend</li></ul>	
<b>University Potal</b>   <i>c</i>	Jan 2023
<ul style="list-style-type: none"><li>Developed an app(University potal) in command line using with c and files for Basic Programming final University project</li></ul>	
<b>Pacman</b>   <i>c++, Git, QT</i>	July 2023
<ul style="list-style-type: none"><li>Developed a game using with c++ and QT for Advanced Programming final University project</li></ul>	
<b>Space Invader</b>   <i>c++, Git, QT</i>	July 2023
<ul style="list-style-type: none"><li>Developed a game using with c++ and QT for Advanced Programming final University project</li></ul>	
<b>sat solver</b>   <i>c++, python</i>	Jan 2024
<ul style="list-style-type: none"><li>I did this project with both python and c for logic final University project</li></ul>	
<b>Geometric A-star</b>   <i>python</i>	Feb 2024
<ul style="list-style-type: none"><li>implementing Geometric A* based on "Geometric A-star Algorithm : An Improved A-star Algorithm for AGV Path Planning in a Port Environment"(paper) and comparing with other searching algorithms</li></ul>	
<b>Artificial Intelligence project designed by UC Berkeley(AI pacman project)</b>   <i>python</i>	Mar 2024
<ul style="list-style-type: none"><li>Developed some adversarial algorithms using with python</li></ul>	
<b>CSP(map coloring)</b>   <i>python</i>	May 2024
<ul style="list-style-type: none"><li>CSP for map coloring using with python for AI University project</li></ul>	
<b>fraud detection</b>   <i>python, SKlearn, numpy, pandas, matplotlib</i>	Jun 2024
<ul style="list-style-type: none"><li>Developed an AI model using with python for AI University project</li></ul>	
<b>ADHD detection</b>   <i>python, SKlearn, numpy, pandas, matplotlib</i>	Jun 2024
<ul style="list-style-type: none"><li>Developed an AI model using with python for AI University project</li></ul>	
<b>Genetic Algorithm</b>   <i>python, numpy, matplotlib</i>	May 2024
<ul style="list-style-type: none"><li>Developed an AI algorithm using with python for AI University project</li></ul>	
<b>N-Queens using Linear obtimization</b>   <i>python, pyomo</i>	July 2024
<ul style="list-style-type: none"><li>solve N-Queens problem using simplex with python for Linear obtimization University project</li></ul>	
<b>preprocessing on apartment rent dataset</b>   <i>python, numpy, matplotlib, pandas</i>	July 2024
<ul style="list-style-type: none"><li>preprocessing a dataset using python for datamining University project</li></ul>	
<b>Predicting the effects of anticancer drugs on laboratory characteristics</b>   <i>python, numpy, matplotlib, pandas</i>	Oct 2024
<ul style="list-style-type: none"><li>Predicting the effects of anticancer drugs on laboratory characteristics using python for datamining University project</li></ul>	
<b>Predicting the effects of anticancer drugs on laboratory characteristics</b>   <i>python, SKlearn, numpy, matplotlib, pandas</i>	N
<ul style="list-style-type: none"><li>Predicting the effects of anticancer drugs on laboratory characteristics using python for datamining University project</li></ul>	
<b>Topic modeling on news articles</b>   <i>python, SKlearn, numpy, matplotlib, pandas, pickle, spacy, scipy, string, gensim, wordcloud</i>	
<ul style="list-style-type: none"><li>NLP project using python for datamining University project</li></ul>	
<b>GNN</b>   <i>python, SKlearn, numpy, matplotlib, networkx, node2vec</i>	Dec 2024
<ul style="list-style-type: none"><li>GNN project using Zachary's Karate Club with python for datamining University project</li></ul>	
<b>pagerank</b>   <i>python, numpy, scipy, networkx</i>	Mar 2025
<ul style="list-style-type: none"><li>three different implementation of pagerank and compare them using python</li></ul>	
<b>scanner for compiler</b>   <i>c</i>	Mar 2025
<ul style="list-style-type: none"><li>Developed a scanner for compiling B minor language</li></ul>	
<b>authorization and authentication(+ some features) for a website</b>   <i>JavaScript, React, Mongodb, Nodejs</i>	Mar 2025

- develop a login page, admin panel and client for a website

### **RAG System** | *Python, React, JavaScript, Docker, langchain*

Mar 2025

- Developed a Retrieval-Augmented Generation (RAG) system that indexes files, databases, and textual content into embeddings, and allows fine-tuned LLMs to provide accurate responses to user queries. Deployed with Docker for scalability.

### **Exam Paper Question Segmentation & Blank Detection** | *Python, OpenCV*

Aug 2025

- Designed a system for the Ministry of Education to automatically segment scanned exam papers into individual questions and detect unanswered (blank) questions using computer vision techniques. This project aimed to accelerate and improve exam grading accuracy.

### **ASR Bot in Bale** | *Python, Vosk*

Jul 2025

- Implemented an Automatic Speech Recognition bot for Bale messenger using the Vosk model to convert Persian audio messages into text in real-time, enhancing accessibility and usability.

### **Telegram Bot - YouTube Summarizer** | *Python, Whisper, DeepSeek*

Aug 2025

- Developed a Telegram bot that takes a YouTube video link, extracts audio, transcribes it using Whisper, and generates a concise summary with DeepSeek LLM, delivering results directly to users.

## SKILLS

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**Languages:** Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, LaTeX

**Frameworks:** React, Node.js

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, Clion, Docker

**Libraries:** pandas, NumPy, Matplotlib, SKlearn, PyTorch, OpenCV

**Soft Skills:** Time Management, Teamwork, Communication, Problem Solving