

# Pouyan Hessabi

Last Update: June 2024

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## PROFILE SUMMARY



I am a computer engineer with a BSc degree from Amirkabir University with hands-on experience in software engineering, machine learning, and web development. Known for my problem-solving skills, critical thinking, leadership, and hard work, I am passionate about technology and committed to delivering high-quality solutions.

## WORK AND RESEARCH EXPERIENCES

**BSc. Thesis, Amirkabir University of Technology, Tehran** Jun 2023 - Sep 2023

- **Title:** Designing and prototyping disease diagnosis and physician referral system using a microservices architecture. Supervised by [Prof. Amir Kalbasi](#).
- Designed a healthcare system using microservices architecture that includes disease prediction based on given symptoms, mapping diseases to particular expertise, and searching physicians.
- Implementation technologies: Python, Flask, XGBoost, MySQL, Docker, Git.

[🔗 Project Link](#)

**APM and Scrum Master, Faraadid Company, Tehran** Apr 2023 - Nov 2023

- Associate product manager of an AI-based platform using computer vision to provide HSE services.
- Assisted the CEO, PM, CTO, and HR in product discovery, business analytics, business strategy, process engineering, quality assurance, and performance measurement.
- Deployed the Scrum framework as Scrum Master, led three teams, and facilitated Scrum events.

**Backend Developer, Dotin Company, Tehran** Aug 2021 - Mar 2022

- Worked on an application involving web development skills such as Java SE, Java EE, Hibernate, XML, HTML/CSS/JS, Oracle, clean code principles, and design patterns.
- Gained business skills in card management, payment processing, and facility installments.

## EDUCATION

**Amirkabir University of Technology (Tehran Polytechnic), Tehran** 2018 - 2023

- Bachelor of Science in Computer Engineering, CGPA<sup>1</sup>: 3.26/4.0
- **Relevant Courses:**
  - Advanced Software Engineering: 4
  - Software Engineering (I): 4
  - Artificial Intelligence: 4
  - BSc. Thesis: 4
  - Internship: 4
  - Algorithm Design: 4

**Mofid 2 High School, Tehran** 2014 - 2018

Diploma of Education in Mathematics and Physics, CGPA: 3.91/4

<sup>1</sup>GPA scores are converted from Iran's standard to Standard US GPA with [this](#) calculator.

## TEACHING EXPERIENCES

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### Head Teaching Assistant, Software Engineering

Spring 2024

- Under the supervision of [Dr Roghaye Khasha](#) at Amirkabir University of Technology.
- Designed and evaluated assignments and projects related to software process, analysis and design, and implementation. Also, prepared lecture videos for the students and taught in the classes.

### Head Teaching Assistant, Advanced Software Engineering

Spring 2023

- Under the supervision of [Dr Faezeh Gohari](#) at Amirkabir University of Technology.
- Designed and evaluated assignments and projects related to software process, analysis and design, and testing. Also, prepared lecture videos for the students and taught in the classes.

### Teaching Assistant, Software Engineering (Software Analysis and Design)

Spring 2023

- Under the supervision of [Dr. Ehsan Alirezaei](#) at Amirkabir University of Technology and Tehran University.
- Designed and evaluated assignments and projects related to software process, analysis, design, and requirement engineering.

## TOP ACADEMIC COURSE PROJECTS

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### Information Retrieval, Search Engine

Spring 2022

- Implemented a search engine using the TF-IDF approach with Python.

 [Project Link](#)

### Advanced Programming, Music Player

Spring 2019

- Designed and implemented a basic music player using Java, supporting features like editing songs in the library, managing different playlists, and viewing friends' activities.

 [Project Link](#)

### Data Mining, Diabetes Prediction

Spring 2022

- Implemented and evaluated a classifier to determine if given data indicates diabetes in patients, using Python and the XGBoost library.

 [Project Link](#)

### Principles of Artificial Intelligence

Spring 2021

- **Searching Algorithm:** Developed searching algorithms, including IDS, BBFS, and A\*, to find optimal paths using Python.
- **Genetic Algorithm:** Implemented a genetic algorithm to solve the Super Mario game using Python without advanced libraries.
- **NLP Comment Filtering:** Implemented bigram and n-gram models for comment filtering using Python, NumPy, and Pandas.

 [Project Link](#)

### Operating System, MIT XV6 Operating System

Fall 2020

- Developed scheduling algorithms and system calls for the XV6 OS using C.

 [Project Link](#)

Other academic projects can be viewed at [this link](#).

## TECHNICAL SKILLS

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**Programming Languages and Web Development:** Python, Java, C, Kotlin, HTML, CSS, JavaScript, XML

**Hardware Design Languages:** Arduino, Verilog, VHDL

**Artificial Intelligence:** XGBoost, NumPy, Pandas, Scikit-learning

**Database Systems:** MySQL, Oracle

**Operating Systems:** Windows, Linux(Ubuntu)

**Other:** Flask, Spring, Git, Docker, Jira, L<sup>A</sup>T<sub>E</sub>X, REST API, Agile (Scrum/Kanban/XP)

## VOLUNTEER WORK

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- Manager of the Association of Philosophy at Amir Kabir University of Technology, 2020–2022.
- Writer at Pouyesh Student Magazine, the official publication of the Students' Community (Guild Council) of the Computer Engineering Department at Amirkabir University of Technology, 2023.
- Student social activist at Mofid 2 High School, involved in writing for magazines, declamation, and theater performance, 2014–2018.

## AWARDS AND HONORS

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**Nationwide University Entrance Exam** 2018

- Achieved top 2% among approximately 150,000 applicants in the Nationwide University Entrance Exam (Konkour) for BSc. in Mathematics and Engineering.
- Full tuition waiver scholarship from Amirkabir University of Technology.

**Management of The Association of Philosophy** 2022

- As the manager of the Association of Philosophy at Amirkabir University of Technology, I won the award for the best cultural association in the field of Culture and Thought among all universities in the country.

## LANGUAGES

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Persian Native

English Fluent: IELTS Academic: 6.5 (Writing: 7, Speaking: 6.5, Listening: 6.5, Reading: 6)

## REFERENCES

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**Faezeh Gohari:** Adjunct Professor at Amirkabir University of Technology.

Email: [faezeh.gohari@gmail.com](mailto:faezeh.gohari@gmail.com)

**Ali Atghaei:** Technical Manager of AI Department at Faraadid.

Email: [ali.atghaei@gmail.com](mailto:ali.atghaei@gmail.com)

**Neda Rasouli:** Technical Team Lead at Dotin.

Email: [n.rasouli@dotin.ir](mailto:n.rasouli@dotin.ir)

All certificates, documents, and other references are available upon request.