

# Pouyan Hessabi

Date of Birth: 4 December 1999

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## RESEARCH INTERESTS

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Software Engineering, Agile Development, Software Architecture, Requirement Engineering, Applied Machine Learning, Human Factors in Software Engineering

## EDUCATION

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

- Bachelor of Science in Computer Engineering, GPA<sup>1</sup>: 3.26/4.0
- **Notable Courses:**
  - BSc. Thesis: 4/4
  - Internship: 4/4
  - Software Engineering 2: 4/4
  - Software Engineering 1: 4/4
  - Artificial Intelligence: 4/4
  - Algorithm Design: 4/4
  - Startup Development: 4/4
  - Mobile Programming: 4/4

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

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

## WORK AND RESEARCH EXPERIENCES

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

- **Title:** Designing and prototyping disease diagnosis and physician referral system using microservices architecture.
- Under the supervision of [Prof. Amir Kalbasi](#)
- Designed a healthcare system using microservices architecture that includes disease prediction by given symptoms, mapping diseases to particular expertise, and searching physicians.
- Involved software design and engineering principles, machine learning and requirement engineering.
- Implementation technologies: Python, Flask, XGBoost, MySQL, Docker, Git.

 [Project Link](#)

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

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

**Java Developer, Dotin Company, Tehran, Iran** Aug 2021 - Mar 2022

- Java developer in a banking company.
- 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.
- Business skills encompassed card management, payment processing, card transactions, and facility installments.

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<sup>1</sup>My Iran GPA was converted to Standard US GPA with [this](#) calculator.

## TEACHING EXPERIENCES

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### Head Teaching Assistant, Software Engineering II

Spring 2023

- Under the supervision of [Dr Faezeh Gohari](#) at Amirkabir University of Technology.
- Designing (and grading) assignments and projects related to software process, software analysis and design, and testing. Also preparing lecture videos for the students and teaching 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.
- Designing (and grading) assignments and projects related to software process, software analysis and design and requirement engineering.

## TOP ACADEMIC COURSE PROJECTS

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### Information Retrieval, Search Engine

Spring 2022

- Implemented a search engine by tf-idf approach using Python language.

[Project Link](#)

### Advanced Programming, Music Player

Spring 2019

- Designed and Implemented a basic music player using Java. Supporting features like editing songs in library, managing different playlists and watch friends activities.

[Project Link](#)

### Data Mining, Diabetes Prediction

Spring 2022

- Implemented and evaluated a simple classifier to determine if given data represent patient's diabetes based on its features, using Python language and XGBoost library.

[Project Link](#)

### Principles of Artificial Intelligence, Three Projects

Spring 2021

- **Searching Algorithm:** Implemented searching algorithms, including IDS, BBFS, and A\*, from scratch to find optimal paths using Python.
- **Genetic Algorithm:** Implemented a genetic algorithm to solve the Super Mario game using Python. No advanced libraries for genetic algorithms were used.
- **NLP Comment Filtering:** Implemented bigram and n-gram models for comment filtering using Python language with Numpy and Pandas libraries.

[Project Link](#)

### Operating System, MIT XV6 Operating System

Fall 2020

- Implemented scheduling and some system calls for XV6 OS using the C language.

[Project Link](#)

## TECHNICAL SKILLS

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

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

**Database Systems:** MySQL, Oracle

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

**Miscellaneous** Flask, Spring, Git, Docker, Jira,  $\text{\LaTeX}$ , REST API, Agile (Scrum/Kanban/XP)

## AWARDS AND HONORS

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### Nationwide University Entrance Exam

2018

- Achieved top 2% among all applicants of the Nationwide University Entrance Exam (known as Konkour) for BSc. in Mathematics and Engineering (Approximately 150000 applicants)

### Management of Association of Philosophy and Religion

2022

- As the manager of Association of Philosophy and Religion at Amirkabir University of Technology, I was the winner of 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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Perisan Native

English Fluent (TOEFL IBT anticipated completion date: 12/30/2023)

## REFERENCES

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**Faezeh Gohari:** Lecturer at Amirkabir University of Technology, Tehran, Iran.

Email: faezeh.gohari@gmail.com

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

Email: ali.atghaei@gmail.com

**Amir Kalbasi:** Assistant Professor at Amirkabir University of Technology, Tehran, Iran.

Email: kalbasi@aut.ac.ir

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