

Kamyab Abedi

DATA SCIENTIST · SOFTWARE ENGINEER

B.Sc. in Computer Engineering and Science, Shahid Beheshti University, Tehran, Iran

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Summary

Current I'm fourth year student of CE at Shahid Beheshti University and interested in Back-End programming, Machine learning, IT security and other geek stuff. 2+ years' experience specializing in the Back-End development, plus 1 years' experience in data visualization. Super nerd who loves Linux and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises. I'm passionate about my work. Because I love what I do, I have a steady source of motivation that drives me to do my best.

Education

B.Sc. in Computer Engineering

Tehran, Iran

FACULTY OF COMPUTER SCIENCE AND ENGINEERING, SHAHID BEHESHTI UNIVERSITY

Sep. 2018 - PRESENT

- During my degree at Shahid Beheshti University I learnt lots of key skills such as team work and project management. Although we mainly focused on software development and the principles of programming, I use a lot of these skills to my advantage in my day-to-day work.
- Received full scholarship from Shahid Beheshti University. (Tuition waiver)
- Supervisor: **Prof. Hamid Reza Mahdiani**
- One of **Iran's 3 top** universities.
- **Cumulative GPA:** 15.1/20

Diploma in Mathematics and Physics

Tehran, Iran

SHAHID BEHESHTI HIGH SCHOOL

Sep. 2014 - Sep. 2018

- Received full scholarship from Shahid Beheshti School. (Tuition waiver)
- **Final score:** 19.48/20

Experience

Work Experience

Teacher

Tehran, Iran

JAHAH DANESHGAHI INSTITUTE

Sep. 2020 - Jan. 2021

- Teaching Fundamental of programing.

Machine Learning Intern

Tehran, Iran

AI MEDIC

Jul. 2021 - Oct. 2021

- Almedic is a start-up studio, aiming to offer AI products in the healthcare industry.
- We are working on medical imaging, EHR analysis, smart assists, and medical NLP problems.

Teaching Assistantship Experience

Internet Engineering Course (2X)

Tehran, Iran

SHAHID BEHESHTI UNIVERSITY

Sep. 2021 - PRESENT

- Held TA sessions, determined and graded final project, homework and computer assignments.
- Under the supervision of **Dr. Javanmardi**

Computer Simulation Course (2X)

Tehran, Iran

SHAHID BEHESHTI UNIVERSITY

Sep. 2021 - PRESENT

- Held TA sessions, determined and graded final project, homework and computer assignments.
- Under the supervision of **Dr. Safaei**

Engineering Probability & Statistics Course (2X)

Tehran, Iran

SHAHID BEHESHTI UNIVERSITY

Sep. 2021 - PRESENT

- Led TA team, Managed the TA Group for this semesters and changed the TA class syllabus to teach new students Python and data visualization.
- Under the supervision of **Dr. Safaei**

Advanced Programming Course (1X)

Tehran, Iran

SHAHID BEHESHTI UNIVERSITY

Jan. 2022 - PRESENT

- Held TA sessions, determined and graded final project, homework and computer assignments.
- Under the supervision of **Dr. Aliakbary**

Linear Algebra Course (1X)

SHAHID BEHESHTI UNIVERSITY

- Held TA sessions.
- Determined and graded homework.
- Under the supervision of [Dr. Malek](#)

Tehran, Iran

Jan. 2022 - PRESENT

Research and Technical Presentation Course (1X)

SHAHID BEHESHTI UNIVERSITY

- Held TA sessions.
- Determined and graded homework.
- Under the supervision of [Dr. Neshati](#)

Tehran, Iran

Jan. 2021 - Jul. 2021

Honors & Awards

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|------|--|------------------------------|
| 2018 | Ranked within the top 1% , among 144,437 participants in the annual Iranian University Entrance Exam for Bachelor's degree. | Tehran, Iran |
| 2017 | Ranked within the top 10 GPAs , among the 512 Students of the Math and Physics program at Shahid Beheshti School. | Tehran, Iran |

COMPETITIVE PROGRAMMING

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|------|--|------------------------------|
| 2021 | Ranked within the top 5% , among 2200 contestants, Digikala Cup, Software Engineering Contest in Quera website. | Tehran, Iran |
| 2021 | Ranked 53th , among 1328 contestants, Code Star, Front-end Contest in Quera website. | Tehran, Iran |
| 2020 | Ranked 68th , among 874 contestants, Code Star, Programming Contest in Quera website. | Tehran, Iran |

Skills

Programming Languages:

Python (Advanced), Java (Advanced), Golang (Intermediate), Kotlin (Intermediate), C/C++ (Intermediate), Julia (Intermediate), MATLAB (Intermediate), JavaScript (Fair), VHDL (Fair), Verilog (Fair), Assembly 8086 (Fair).

Other Languages:

HTML/CSS (Advanced), Bash (Intermediate), SQL (Fair).

Frameworks:

Android (Intermediate), TensorFlow (Intermediate), Pytorch (Intermediate), Sickit Learn (Advanced), Pandas (Advanced), Matplotlib (Advanced), Numpy (Advanced), Keras (Advanced).

Databases:

MySQL (Intermediate), MongoDB (Intermediate), PostgreSQL (Intermediate).

Other:

Git (Advanced), Microsoft Office (Intermediate), LaTeX (Fair), Adobe Photoshop (Fair), Adobe Illustrator (Fair).

Workshops & Courses

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|------|---|----------------------------------|
| 2021 | Neural Networks & Deep Learning , Prof. Andrew NG. | Deeplearning.ai |
| 2021 | Hyperparameter Tuning, Regularization & Optimization , Prof. Andrew NG. | Deeplearning.ai |
| 2021 | Convolutional Neural Networks , Prof. Andrew NG. | Deeplearning.ai |
| 2021 | Introduction to Data Science , Prof. Christopher Brooks. | Coursera Website |
| 2020 | Machine Learning , Prof. Andrew NG. | Stanford |
| 2020 | Structuring Machine Learning Projects , Prof. Andrew NG. | Coursera Website |
| 2020 | Developing Android Apps Course , some Android course by Google. | Udacity Website |
| 2020 | The Hands On Machine Learning Course , Learn and understand Machine Learning from scratch. | Udemy Website |
| 2019 | Human-Centered Design , by University of California San Diego. | Coursera Website |

Sample Project

Covid-19 in Iran | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

- An analysis on COVID-19 infections in Iran using Regression.

Sep. 2021

Web Crawler Detection | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

Sep. 2021

- An offline web crawler detection system using unsupervised algorithms such as Auto-encoders.

Citizen Income Exceeding Prediction | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

Sep. 2021

- Implemented a model used SVM & KNN algorithms to predict whether citizen's income exceed or not.

Fraud Detection | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

Sep. 2021

- Fraud Detection using Supervised Algorithms for an unbalanced dataset.

Dogs Breed Classification | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

Sep. 2021

- Dogs Breed Classification on Stanford Dogs Image Dataset using transfer learning on VGG16.

Persian News Classification | Python

PROJECT OF COMPUTATIONAL INTELLIGENCE COURSE

Sep. 2021

- Persian News Classification using SVM and Fast-text pretrained word embeddings.

"Snappfood" website clone | Golang-React

PROJECT OF INTERNET ENGINEERING COURSE

Jul. 2021

- In this project, we were instructed to build a Food Delivery application. The frontend of this project built with React JS and redux.
- Restful APIs for Food Delivery application developed using Golang.
- Final project of the Internet Engineering course, [Dr. Parham Alvani](#), Shahid Beheshti University.

The Matson Evaluation of Social Skills | Python

PROJECT OF DATA MINING COURSE

May. 2021

- The Matson Evaluation of Social Skills with Youngsters(MESSY) and its Adaptation for Iranian children and adolescents.
- Final project of the Data Mining course, [Prof. Alireza Talebpour](#), Shahid Beheshti University.

Decaf Compiler | Java

PROJECT OF COMPILER COURSE

Jan. 2021

- Implementation a compiler for decaf language. Decaf is a simple small object-oriented language similar to C/C++/Java languages.
- Used lexer/scanner generator, LALR parser generator.
- Final project of the Compiler course, [Prof. Ghassem Jaberipur](#), Shahid Beheshti University.

"Othello" game | Python

PROJECT OF AI COURSE

Jun. 2020

- Implementation of smart agent for Othello game.
- Implemented an appropriate MiniMax algorithm in order to play with the user.
- Pruned the MiniMax tree which can become really large using Alpha-Beta pruning algorithm.
- Added an Evolutionary Algorithm (EA) which helps us estimate the parameters of the MiniMax algorithm.
- Final project of the Artificial Intelligence and Expert Systems course, [Dr. Armin Salimi-Badr](#), Shahid Beheshti University.

library management system | Java

PROJECT OF DS COURSE

Jan. 2020

- Design and Implementation of Library Management System.
- Used KD-tree and Trie Data Structures
- that was an application for assisting a librarian in managing a book library in a university. The system would provide basic set of features to add/update members, add/update books, and manage check in specifications for the systems based on the client's statement of need.
- Final project of the Data structure course, [Dr. Ahmad Ali Abin](#), Shahid Beheshti University.

"Lidingeram" Messenger Application | Java

PROJECT OF AP COURSE

Jun. 2019

- Developed a messenger application for Android phones.
- Used socket programming.
- Final project of the Advanced Programming course, [Dr. Mojtaba Vahidi-asl](#), Shahid Beheshti University.

Jetpack Joyride, 2 Cars and Doodle Jump game Cloning | C++

PROJECTS OF ITP COURSE

Jan. 2019

- Implement these games with SDL library.
- Used SDL and SBDL library that designed to provide low level access to audio, keyboard, mouse, joystick, and graphics hardware via OpenGL and Direct3D. It is used by video playback software, emulators, and popular games including Valve's award winning catalog and many Humble Bundle games.
- projects of the ITP course, [Dr. Sadegh Aliakbary](#), Shahid Beheshti University.

Languages

- Persian (Native)
- English (Fluent)
- German (Elementary)

Memberships

- **Member of the Student Scientific Association**, Faculty of Computer Science and Engineering, Shahid Beheshti University.
- **Member of the Web Development Group**, Faculty of Computer Science and Engineering, Shahid Beheshti University.
- **Member of the AI Group**, Faculty of Computer Science and Engineering, Shahid Beheshti University.