

Sarah Akhavan Kazemzadeh

Dept. of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran
☎ (+98) 93-8441-8900 | ✉ sarah.9473@gmail.com | 🌐 www.sarahakhavan.com | 📁 jack-in-the-box | 📺 sarahakhavan

Research Interests

- Human Computer Interaction
- Human Centered Design
- User Research Analysis
- Evaluation of User Interfaces
- Information Visualization
- Information Architecture
- Cross-Cultural Human-Computer Interaction Design
- Interaction Design

Education

Amirkabir University of Technology (Tehran Polytechnic)

Tehran, Iran

B.Sc. IN COMPUTER ENGINEERING

Sep. 2013 - PRESENT

- Cumulative GPA:

Last two years: 16.13/20 \equiv 3.38/4

Selected courses: 17.54/20 \equiv 3.78/4

Principles of Computer and Programming (20), Advanced Computer Programming (15.5), Data Structures and Algorithms (20), Design of Algorithms (17.3), Data Storage and Retrieval (15.75), Software Engineering 1 (16.5), Software Engineering 2 (18.75), Principles of Database Design (18.16), Computer Graphics (16.5), Artificial Intelligence (15.5), Foundations of Data Mining (16.8), Computer Networks (17.5), Computer Architecture (19)

Farzanegan High School, NODET (National Organization for Development of Exceptional Talents)

Mashhad, Iran

HIGH SCHOOL DIPLOMA IN MATHEMATICS AND PHYSICS

2009 - 2013

Experience

Adanic Software Company

UI/UX DESIGNER & FRONTEND DEVELOPER

November 2016 - present

- User interface and experience enhancement of the "Keylead" android application.
- Redesigned and implemented several web pages of the web application of KeyLead and related bank services.
- Practiced scrum process model in a real world experience.

Torob Online Markets Search Engine

UI/UX DESIGNER

June 2016 - September 2016

- Got conversant with e-commerce websites trends.
- Learned how to work with google analytics and how to analyze user behaviors.
- Redesigning the user interface of the android application of Torob according to Material Design Guidelines.
- Redesigned the navigation and the way to present the categories on the website.
- Recategorized the products on the website for easier access of the customers.

Nivad Cloud

FRONTEND DEVELOPER/DJANGO DEVELOPER

October 2015 - November 2016

- A startup located in Sharif Accelerator in Sharif University of Technology.
- Worked as a django developer, frontend developer, and a designer, focusing on the front-end part.
- Got familiar with lean startup approach.

Notable Academic Projects

Foundations of Data Mining

TITANIC: MACHINE LEARNING FROM DISASTER

2017

- Implemented in both Python and R.
- A prediction of the survival or the death of a given passenger based on a set of variables describing them such as their age, sex or passenger class on the boat.
- Practiced dimensionality reduction and feature scaling to make the given dataset more of use.
- Used and compared the Random Forests, Gradient Boosting, Naive Bays, and Neural Network Models.
- Scored 0.80382 on the Titanic Challenge on Kaggle.

FRAUD DETECTION

- Implemented in Python using Pandas and Sklearn.
- Used oversampling techniques to replicate the minority class of fraud data in the imbalanced original dataset.
- Used and compared the Logistic Regression, Random Forests, Neural Network, and Decision Tree Models.

Principles of Database Design

INTEGRATED HEALTH CARE SYSTEM

2016

- Implemented with MySQL.
- Design and implementation of a relational database for an integrated health care system.

Data Storage and Retrieval

SMALL SEARCH ENGINE

2015

- Written in Java.
- Implementation of a document retrieval system on more than 2 GB of unstructured text (content-based).
- Based on vector space model and ranking methods.

Data Structures & Algorithms

ZIP/UNZIP PROGRAM

2014

- Written in C++.
- A zipping program using the Huffman code algorithm.
- Capable of zipping files, unzipping formerly zipped files, storing and restoring the heap.

Advanced Computer Programming

PACMAN

2014

- Written in Java.
- Three leveled game of famous PacMan.
- Implementation of basic search algorithms like BFS.

STRATEGIC GAME

- Written in Java.
- An online multiplayer game similar to Stronghold Crusader.
- Implementation of different design patterns and algorithms.

Technical Skills

Design & Prototyping	Sketch, Adobe Illustrator, InvisionApp, Adobe Comp
Digital Painting & Photo Editing	Adobe Photoshop, Gimp, Tayasui Sketches Pro, Adobe Lightroom
Programming & Scripting Languages	Python, C, C++, Java, AVR Assembly, 8086 Assembly, Shell Scripting
Web development	Django with Python, JQuery, HTML, CSS, XML, AJAX, Pug
Database Management Systems	MySQL, Microsoft SQL Server, SQLite
Data Mining and Visualization	WEKA, Rapidminer, Scikit-Learn, Pandas, Matplotlib, Numpy
Miscellaneous	PyCharm, Xcode, Visual Studio, Eclipse, Proteus, PSpice, Modelsim, ATMEL Studio Linux (Ubuntu, SUSE), MacOS, Microsoft Windows VHDL, Verilog LaTeX

Language Skills

English

TOEFL IBT SCORE: 105/120

Reading: 26/30, Listening: 30/30, Speaking: 24/30, Writing: 25/30

Persian

NATIVE

Teaching Experience

Teaching Assistant, Amirkabir University of Technology

PRINCIPLES OF COMPUTER AND PROGRAMMING (C/C++)

2014

- Teaching Assistant to Professor Shiri

Teaching Assistant, Amirkabir University of Technology

PRINCIPLES OF COMPUTER AND PROGRAMMING (C/C++)

2017

- Teaching Assistant to Professor Nazerfard

Speaker, Amirkabir University of Technology

BASICS IN DESIGN WORKSHOP

2017

- Explained paper and digital prototyping
- Introduced prototyping tool Sketch and how to use it in comparison to Adobe Illustrator

Honors & Awards

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| 2014 | 2nd Place , local ACM contest of Amirkabir university of technology (Among Amirkabir Teams) |
| 2014 | 1st Place , regional ACM contest of Sharif university of technology (Among All-girls Teams) |
| 2013 | 5th Place , local ACM contest of Amirkabir university of technology (Among Amirkabir Teams) |
| 2013 | 1st Place , regional ACM contest of Sharif university of technology (Among All-girls Teams) |
| 2013 | Ranked top 0.006 , Nationwide University Entrance Exam (Among All Students in Mathematics and Physics (approximately 230,000)) |
| 2011 | 3rd Award , Young Researchers in Mathematics Convention held in Mashhad, Iran (Pigeonhole Principle Section) |
| 2008 | 1st Award , Biology Competition (Farzanegan Junior Highschool of Mashhad) |

Hobbies

Drawing, Digital Painting, Swimming, Squash, Reading Novels, Knitting, Cooking

References

- **Professor Sayed Rasoul Mousavi**
rm@aut.ac.ir
- **Professor Ehsan Nazerfard**
nazerfard@aut.ac.ir
- Others available upon request