

# Sarah Akhavan Kazemzadeh

Practices in Enabling Technologies (PiET) lab, Lassonde School of Engineering, York University, Toronto, Ontario  
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## Research Interests

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- Human Computer Interaction
- Human Centered Design
- Inclusive Design
- Accessibility and Assistive Technologies
- User Research Analysis
- Evaluation of User Interfaces
- Cross-Cultural Human-Computer Interaction Design
- Interaction Design

## Education

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### York University

M.SC IN COMPUTER SCIENCE

Toronto, Canada

Sep 2018 - PRESENT

### Amirkabir University of Technology (Tehran Polytechnic)

B.SC. IN COMPUTER ENGINEERING

Tehran, Iran

Sep. 2013 - August 2018

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

HIGH SCHOOL DIPLOMA IN MATHEMATICS AND PHYSICS

Mashhad, Iran

2009 - 2013

## Experience

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### Adanic Software Company

UI/UX DESIGNER & FRONTEND DEVELOPER

Dec 2016 - Jul 2018

- 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

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### Practices in Enabling Technologies (PiET) Lab

SMART TOOLBOX STUDY: INTAKE

York University

Fall 2019

- Designed an evaluation framework to measure the usability of the SmART Toolbox.
- Designed and directed Think Aloud Sessions.

TREASURE BOX BRIALLE

Winter & Summer 2018

- Worked on the design of a more accessible User Interface for people with visual impairments.

## Foundations of Data Mining

Amirkabir University

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.

## Teaching Experience

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### Teaching Assistant, Lassonde School of Engineering, York University

HUMAN COMPUTER INTERACTION

Fall 2019

- Teaching Assistant to Professor Melanie Baljko

### Teaching Assistant, Lassonde School of Engineering, York University

USER INTERFACES

Summer & Fall 2019

- Teaching Assistant to Professor Andriy Pavlovych

### Teaching Assistant, Lassonde School of Engineering, York University

USER INTERFACES

Winter 2019

- Teaching Assistant to Professor Melanie Baljko

### Teaching Assistant, Amirkabir University of Technology

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

2017

- Teaching Assistant to Professor Nazerfard

### Teaching Assistant, Amirkabir University of Technology

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

2014

- Teaching Assistant to Professor Shiri

## Technical Skills

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### 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

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### English

TOEFL IBT SCORE: 105/120

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

### Persian

NATIVE

## 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

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