

# Sepehr Sameni

MACHINE-LEARNING SOFTWARE 2.0 ENGINEER

Tbilisi, Georgia

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“What we lack in knowledge, we make up for in data.”

## Education

### University of Tehran

MASTER IN ARTIFICIAL INTELLIGENCE

- Expected graduation date : Sep. 2019
- Dropped out!

Tehran, Iran

Sep. 2017 - Sep. 2018

### University of Tehran

B.S. IN SOFTWARE ENGINEERING

- GPA: 17.80/20

Tehran, Iran

Sep. 2013 - Jun. 2017

### Allameh Helli High School

DIPLOMA IN MATHEMATICS

- Part of National Organization for Development of Exceptional Talents (NODET)

Tehran, Iran

July 2009 – July 2012

## Experience

### Neiron

AI ENGINEER

- Time series prediction via Hierarchical RNNs

Tbilisi, Georgia

Summer 2018-Now

### University of Tehran

AI RESEARCHER

- Using GANs to generate realistic EEG signals with Dr. Sadeghi

Tehran, Iran

Fall 2017-Now

### University of Tehran

TEACHER ASSISTANT

- TA of many courses including Advanced Programming, OS, Internet Engineering and Signals & Systems

Tehran, Iran

Spring 2014-Spring 2017

### Aban Corp.

SOFTWARE ENGINEER

- Design and implementation of an Advertising Platform for Telegram with node and python

Tehran, Iran

Summer 2017

### Aban Corp.

DATA SCIENTIST

- Implemented an app2vector engine for Aptoide in Iran based on the app description and reviews.

Tehran, Iran

Summer 2016

### Pars Petro Zagros Geophysics

SOFTWARE DEVELOPER

- Highly efficient Ricker estimated deconvolution using C and OpenMP.

Tehran, Iran

Summer 2015

### Aban PPC

JUNIOR SOFTWARE ENGINEER

- Implemented a log aggregation system for their CDN system using twitter's storm(now known as apache storm).

Tehran, Iran

Summer 2013

## Honors & Awards

2015-16 **FOE Award**, ranked 3rd among students of Computer Engineering

Tehran, Iran

2013-14 **FOE Award**, ranked 2nd among students of Computer Engineering

Tehran, Iran

2013 **Ranked 91th (regional rank)**, and 160th (national rank) in the National Universities Entrance Examination among more than 300,000 contestants, 2013

Tehran, Iran

2012 **Ranked 1st (regional rank)**, Khwarizmi youth award

Tehran, Iran

## Skills

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- Programming Languages: Python, C, C++, CUDA, Java, Java Script, Verilog
- Deep Learning Frameworks: PyTorch, Keras, TensorFlow

## Notable Projects

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### BRNN

BINARIZED RECURRENT NEURAL NETWORK

Summer 2017 - Now

- Trying to binarize RNNs so they could be run on mobile devices and bring offline NLP to masses

### Emoji Prediction

MY BACHELOR OF SCIENCE THESIS

Spring 2017

- Emoji prediction for Persian and English with a recurrent deep model trained over bilingual word vectors

### Agah Keyboard

MODULAR ANDROID KEYBOARD

Fall 2016 - Winter 2017

- Design and implementation of a modular android keyboard based on AOSP with Swipe feature and a 3-gram language model

### F1-AR

F1'S AUGMENTED REALITY EXPERIENCE

Summer 2014

- Augmented Reality for ACM's student branch using OpenCV.

### 3D Soccer Simulation

TRIPLE-A'S 3D-SS TEAM

Spring and Summer 2011

- Omni-directional walk.
- Multi-power kick.

### Mixed Reality Soccer Simulation

TRIPLE-A'S MIXED-REALITY TEAM

Fall 2010

- Participated in Iran Open 2010.

## Research Interests

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- Natural Language Processing (specially multilingual systems)
- Deep Neural Networks (specially attention and recurrent networks)
- Audio Processing
- Parallel Processing

## Language Skills

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- Persian: Native
- English: Advanced