



# FARBOD FARHOUR

## AI RESEARCHER, DEVELOPER

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## SKILLS

### JavaScript and Node.js

Fluent, 6+ years of experience.

Frameworks used:

- React.js
- Express.js

### Python

Fluent, 3+ years of experience.

Framework and libraries used:

- Django
- NumPy
- PyTorch

### TensorFlow

1+ years of experience.

Libraries used:

- TensorFlow.js
- R Interface to TensorFlow

### Linux System Administration

Fluent, 6+ years of experience. 2+ years of teaching experience.

Most used Linux distribution:

- Ubuntu Server

### Laravel Web Framework

Fluent, 5+ years of experience. Large scale projects completed.

## PROFILE (LAST UPDATED: OCT 2018)

A self-starter with 6+ years of successful experience in research and development in academic societies and best-in-class startup companies.

Results include:

- Developed TweetAI system that collects and analyzes tweets from **500,000+ targeted Twitter users** (Used for both academic and financial purposes).
- Built **5+ innovative trading software and algorithms(FaraTrader)** in Iran's Financial Markets.
- Launched **Recordium** app that did break into the **top 10 apps in 53 countries** in the Apple's app store.
- Devised AutoServer system for **automated deploying and managing servers** on **Amazon AWS** and **DigitalOcean** (Used for both academic and financial purposes).
- Taught **500+ hours** of computer science courses for **200+ students**.

## RESEARCH INTERESTS

**Deep Learning** : Using deep neural networks for text and time series analysis.

**Social Media Analytics**: Using data mining and visualization to explore trends and behaviors in online social media platforms. This has included work on topic modeling, sentiment analysis, content curation, and user recommendation systems.

**Artificial Intelligence, Forecasting, Computational Finance, Web Development Technologies.**

## EDUCATION

### Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

Sep 2013 - Dec 2015

M.Sc. in Computer Science (Research-based)

- **GPA: 17.98/20.**
- Took **3 more courses**, because of interest in Artificial Intelligence lessons.

**Relevant Courseworks:**

- Neural Networks (18.5/20).
- Advanced Topics In Neural Networks (Deep Learning) (19.25/20).
- Advanced Artificial Intelligence (18/20).
- Image Processing (20/20).
- Computational Complexity Theory (17.5/20).

**Thesis:**

- Controllability Discovery of Biological Networks (19/20).
- Supervisors: [Fateme Zare-Mirakabad](#), [Farzad Didehvar](#), [Zahra Razaghi Moghadam Kashani](#)

### Shahid Beheshti University, Tehran, Iran

Sep 2009 - Sep 2013

B.Sc. in Computer Science

**Relevant Courseworks:**

- Artificial Intelligence (17/20).
- Algorithm Design and Analysis (18/20).
- Numerical Linear Algebra (19/20).
- Programming Languages (17.10/20).

## TEACHING EXPERIENCE

### Jahesh Co, Tehran, Iran

Mar 2016 - Jan 2017

Instructor

Taught **Linux System Administration** course multiple times.

### Shahid Beheshti University, Tehran, Iran

May 2012 - Aug 2013

Instructor

Taught **Web Design** course multiple times for graduate and undergraduate students.

Taught **Web Development** course multiple times for graduate and undergraduate students.

## Matlab



Fluent, 4+ years of experience.

Toolbox used:

- Neural Network Toolbox
- Fuzzy Logic Toolbox

## R Language



+2 years of experience.

## MySQL RDBMS



Fluent, 7+ years of experience.

## Hadoop



1+ years of experience.

## iOS Programming (Objective-C)



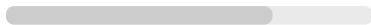
Fluent, 2+ years of experience.

## MongoDB



Fluent, 2+ years of experience.

## Docker



Fluent, 2+ years of experience.

## Front-End Web Development



Fluent, 6+ years of experience.

## LANGUAGES

### English

- Full professional proficiency.

### Persian

- Native or bilingual proficiency.

## ADDITIONAL SKILLS

Communication

Problem Solving

Teamwork

Self-management

Adaptability

Self-motivation

## Shahid Beheshti University, Tehran, Iran

Sep 2011 - Jun 2013

### Teaching Assistant

Taught **Programming in C++** course multiple times for undergraduate students.

Taught **Algorithm Design and Analysis** course multiple times for undergraduate students.

## WORK EXPERIENCE

### Housh Gostar Co, Tehran, Iran

Jan 2016 - Present

#### Full Stack Developer (2 years, PT)

I have devised and developed several systems and web applications at Housh Gostar Company. The primary purpose of these systems is to automate repetitive tasks and use artificial intelligence to improve the outcomes. TweetAI, AutoServer, and FaraTrader are 3 of these products.

### Khobregan Saham Brokerage Co, Tehran, Iran

Aug 2011 - May 2014

#### Senior Software Developer (3 years, PT)

##### Key Achievements:

- Developed several web and mobile applications.
- Prepared and Configured Linux OS for the final product.

### Pichak Co, Tehran, Iran

Jan 2013 - Aug 2013

#### iOS Developer (8 months, FT)

I developed the [Recordium](#) app as a member of a team at Pichak startup company. Recordium had been selected as **one of the top 10 apps in more than 104 countries and featured by Apple**. TheNextWeb, The Guardian, LifeHacker, The Telegraph, MakeUseOf, iMore, AppAdive and more!

## AWARDS & HONORS

- Achieved **21st rank among 15000+ participants** in entrance exam of M.Sc. to enter to free of tuition fee National Universities in Iran, July 2013.
- Was in the **Top 0.5%** in entrance exam of B.Sc. to enter to free of tuition fee National Universities in Iran, July 2009.
- Gained the **1st Rank** between Scientific Associations of Student at Shahid Beheshti University, May 2011.
- Gained the **3rd Grade** of ACM Competitions at Shahid Beheshti University, April 2009.
- Head of the Scientific Association of Students for 3 years at Shahid Beheshti University.
- Qualified for National Olympiad in Informatics, September 2005.

## PROFESSIONAL DEVELOPMENT & AFFILIATIONS

Completed **30+ online courses** include:

- **Natural Language Processing with Deep Learning in Python**- Udemy.com
- **Python for Data Science and Machine Learning Bootcamp**- Udemy.com
- **The Cassandra Distributed Database**- Udemy.com
- **Hadoop, MapReduce for Big Data problems**- Udemy.com
- **Machine Learning and TensorFlow on the Google Cloud** - StackSkills.com
- **Statistics and Data Science in R** - StackSkills.com
- **Complete Google Data Engineer and Cloud Architect Guide** - StackSkills.com

## REFERENCES

**Fateme Zare-Mirakabad**, Asst. Professor

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