

Esmaeil ZARE

PERSONAL DATA

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PLACE AND DATE OF BIRTH: Shiraz, Iran | 23 January 1995
[Home Page](#), [LinkedIn Profile](#)

EDUCATION

Feb 2018	B.Sc. in Computer Engineering
Sep 2013	Shiraz University, Shiraz, Iran
	Major: Software Engineering GPA: 15.99/20 (Canadian System: 3.21/4)
	Final Project: Design and Fabrication of an automatic presence mobile application
June 2013	High School
Sep 2009	Exceptional Talents High School (NODET), Shiraz, Iran
	Major: Mathematics and Physics GPA: 18.28/20

HONORS AND AWARDS

- Ranked within the top 15 percent of my graduating class in the bachelor program at Shiraz University, 2017
- Received scholarship (tuition wave) from Shiraz University for bachelor level
- Ranked within the top 3 percent among 250,000 participants in the Iranian university entrance exam, 2013

RESEARCH INTERESTS

- | | |
|--------------------|-------------------------------|
| • Machine Learning | • Natural Language Processing |
| • Data Science | • Optimization |

RELEVANT COURSES

Operational Research	Class Scheduler: Python using GLPK (4/4) A linear programming based application which schedules the best class schedule with respect to minimizing the number of different possible collisions.
Software Engineering	TweetViz: Python using NLTK (4/4) The project includes analyzing a dataset of raw tweets of Tweeter to determine trends and top subjects and their positivity in respect of time and location, and constructing graphs and charts to illustrate results of the earlier stage
Numerical Calculations	Equation Solver: Matlab (4/4) Solving complex equations with up to two variables using various numerical methods
Data Structures and Algorithms	Text Summarizer: Java (4/4) The project includes tokenization, words stemming, words and sentences weight calculation and output generation.
Design and Analysis of Algorithms	Graph Parser: Python using Numpy (3.7/4) An implementation of different graph algorithm with lower execution order on a large dataset
Automata Theory and Languages	Context Free Grammar Converter, C (4/4) Converting context free grammar to Chomsky and Greibach normal forms and vice versa

PROFESSIONAL SKILLS

Programming Languages: C, Python, Java, PHP, Matlab
Operating System: LINUX, Windows
Other: Verilog, \LaTeX , Docker

EXPERIENCE

Academic Experience

- June 2017* | Teacher Assistant at Computer Science Engineering Department
Feb 2017 | *Shiraz University, Shiraz*
Teacher assistant for "Automata Theory and Languages", Dr. Hooman Tahayori
Teacher assistant for "Computer Architecture Laboratory", Dr. Koorush Ziarati
- Jan 2017* | Tutor at Computer Science Engineering Department
Sept 2016 | *Islamic Azad University, Shiraz*
Gave in-person instruction to 10 Design and Analysis of Algorithms students to help them acquire greater knowledge for midterm and final exams
- June 2016* | Teacher Assistant at Computer Science Engineering Department
Feb 2016 | *Shiraz University, Shiraz*
Teacher assistant for "Digital Design", Dr. Farshad Khunjush
- Jan 2016* | Teacher Assistant at Computer Science Engineering Department
Sept 2015 | *Shiraz University, Shiraz*
Teacher assistant for "Machine Language and System Programming", Dr. Sattar Hashemi

Work Experience

- Current* | DevOps Specialist and Back End Developer at Development Department
Apr 2020 | *Atishahr, Shiraz*
An integrated national system to manage tourism attractions of Iran
Back end developing using Django and automating deploy and test of its subapplications using Docker
- Sept 2017* | Back End Developer at BehPark StartUp
July 2017 | *Demond Accelerator, Shiraz*
Developing of an online application service to reserve parking lots and pay for them, using Laravel, Php
- Aug 2016* | Intern at Design and Development Department
July 2016 | *Pars Rayan Mehr Modern Communication, Shiraz*
Developing a custom content manager system using Php.

LANGUAGES

ENGLISH: Fluent, TOEFL (iBT) score: 98/120
FARSI: Native

MEMBERSHIPS

- Sept 2016* | Active member of Scientific Association of Computer Science Engineering department
Sept 2015 | *Shiraz University, Shiraz*

EXTRA-CURRICULAR ACTIVITIES

<i>Current</i> <i>Apr 2020</i>	Volunteer Tutor at Ali Ibn Hamzeh Cultural and Educational Charity <i>Shiraz, Iran</i> Teaching discrete mathematics to high school students
<i>Mar 2020</i> <i>May 2018</i>	Compulsory Military Service at Police Force <i>Kerman, Iran</i> Served as Traffic Police

INTERESTS AND HOBBIES

Movies	Football
Reading	Mountaineering

REFERENCES

- [Dr. Farshad Khunjush](#)
Visiting Associate Professor at University of Toronto, Associate Professor at Shiraz University
khunjush@shirazu.ac.ir
- [Dr. Koorush Ziarati](#)
Associate Professor at Shiraz University
koorush@ziarati.net
- Dr. Hooman Tahayori
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