Esmaeil ZARE

Personal Data

Place and Date of Birth:	Shiraz, Iran | 23 January 1995
email:	zare.esmaeil.1995@gmail.com
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Education

Feb 2018
Sep 2013

B.Sc. in Computer Engineering
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
Sep 2009

High School
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
- Data Science
- Natural Language Processing
- 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 / Feb 2017 — Teacher Assistant at Computer Science Engineering Department
Shiraz University, Shiraz
Teacher assistant for "Automata Theory and Languages", Dr. Hooman Tahayori
Teacher assistant for "Computer Architecture Laboratory", Dr. Koorush Ziarati

Jan 2017 / Sept 2016 — Tutor at Computer Science Engineering Department
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 / Feb 2016 — Teacher Assistant at Computer Science Engineering Department
Shiraz University, Shiraz
Teacher assistant for "Digital Design", Dr. Farshad Khunjush

Jan 2016 / Sept 2015 — Teacher Assistant at Computer Science Engineering Department
Shiraz University, Shiraz
Teacher assistant for "Machine Language and System Programming", Dr. Sattar Hashemi

Work Experience

Current / Apr 2020 — DevOps Specialist and Back End Developer at Development Department
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 / July 2017 — Back End Developer at BehPark StartUp
Demond Accelerator, Shiraz
Developing of an online application service to reserve parking lots and pay for them, using Laravel, Php

Aug 2016 / July 2016 — Intern at Design and Development Department
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 / Sept 2015 — Active member of Scientific Association of Computer Science Engineering department
Shiraz University, Shiraz

Extra-curricular Activities

Current *Apr 2020*	Volunteer Tutor at Ali Ibn Hamzeh Cultural and Educational Charity *Shiraz, Iran* Teaching discrete mathematics to high school students
Mar 2020 *May 2018*	Compulsory Military Service at Police Force *Kerman, Iran* 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
  Assistant Professor at Shiraz University
  tahayori@shirazu.ac.ir