Meysam Fozi

Resume

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In His Name

Research Interests

Data science, Machine learning, Big data, Network analysis, Deep learning

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Education

2016–2017 **M.Sc.**, *University of Tehran*, Tehran, Iran.
Natural Language and Text Processing Laboratory

2012–2016 **B.Sc.**, *Shahid Beheshti University (SBU)*, Tehran, Iran.
Computer Engineering, Software Major

2008–2012 **Diploma**, *Hakim Nezami High School*, Qom, Iran.
Mathematics and Physics Discipline

Certificates

2019 December **Data Science Winter School**, *University of Tehran*.
Fundamentals of data science, statistical inference, linear algebra, convex optimization, machine learning, deep learning

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Working Experiences

2019 April - 2019 October **Data analyst**, *Freelance*, Tehran.
Information extraction from the web using Python, Scrapy, and MongoDB. Implementing a UI with Django and DRF. Data analytics using Scala and Spark.

2019 April- now **Senior back-end developer**, *Faraz*, Tehran.
Database administration, web development in PHP

2016 June - 2019 March **Junior full stack developer**, *Zaeim*, Tehran.
Database administration, web development in Ruby, Python, PHP. Teaching Hadoop, HBase, MongoDB, Neo4j as a big data platform

2017 January **Researcher**, *University of Tehran*, Tehran.
Natural Language and Text Processing Laboratory

2015 June - August **Intern**, *AryanSat*, Tehran.
Computer networking internship

Computer Skills

Languages C, C++, Python, Java, R, SQL

Data Science	Numpy, Pandas, Matplotlib, Scikit-learn, Keras, PyTorch
Big Data	Scala, Hadoop ecosystem, Spark
Database	MySQL, Oracle, MongoDB, Redis, HBase, Neo4j
Web	Django, JEE, PHP, Nodejs, JavaScript, Ruby on Rails, JQuery, Bootstrap
Documentation	LaTeX, MS Office, UML, RUP, Doxygen, Wiki

Teaching Assistance Experience

2015 June, 2013 October	**TA for Discrete Mathematics**, *Dr. Farshad Safaei*, SBU. Teaching Mathematical Logic, Combinatorics and Graph Theory along with preparing homeworks and quizzes
2015 June	**TA for Artificial Intelligence**, *Dr. Mehrnoush Shamsfard*, SBU. Teaching Prolog along with preparing homeworks
2016 February	**TA for Software Engineering (I)**, *Dr. Mahmoud Neshati*, SBU. Teaching project management tools (e.g. Visual Paradigm) and UML along with defining course project's phases and timetables
2016 February	**TA for Technical Presentation**, *Dr. Mahmoud Neshati*, SBU. Teaching LaTeX and how to use it for writing resume, cover letter, CV and also for scientific paper writing as a thesis or a journal paper
2013 June	**TA for Introduction to Programming**, *Dr. Ahmad Mahmoudi Aznaveh*, SBU. Contributing to prepare homeworks, quizzes and workshops on different parts of the course.
2013 June	**TA for Computer Workshop**, *Mr. Sina Aghasi*, SBU. Teaching LaTeX, Linux, typing skills, etc

Publications

Book	1000 Solved Problems in Discrete Mathematics (in Persian) Coauthored with Dr. Farshad Safaei (under print stage)
Book	Introduction to Software Engineering (in Persian) Coauthored with Dr. Alireza Shameli (under print stage)
Book	Introduction to Information Security (in Persian) Coauthored with Dr. Alireza Shameli (under print stage)

Languages

Persian	Native or bilingual proficiency
English	Full professional proficiency
French	Elementary proficiency

Main Courses

2016 October Pattern Recognition, Prof. Babak Araabi
- Case study: Novelty and outlier detection using SVM (Tools: python, scikit-learn, Anaconda)
- Case study: Eyes detection using PCA and k-NN with a training and test dataset each having roughly 5000 records (Tools: as above)

2016 October Social Networks, Dr. Masoud Asadpour
- Case study: simulation of random graph models in MATLAB
- Case study: (facility location problem) analyzing the network of city facility centers, extracting centrality indices using Gephi
- Case study: (keyboard layout design) classify letters into 2/10 communities where consecutive letters should be typed with different fingers using Gephi
- Case study: (influence maximization) advertise in some Telegram channels that maximizes the probability of spread having a dataset of nearly 2.5 million records with source and destination channels and the number of messages forwarded from the former to the latter

2017 January Data Mining, Dr. Azadeh Shakery
- Case study: Dataset of roughly 100000 records for diabetes patients. Goal was to predict whether patients needed to be hospitalized again in the near future or not. (Methods used: k-NN, SVM with 10-Fold Cross Validation, k-means, elbow technique, PCA, visualization with scatterplots and dendrograms. Tools: R, RStudio.)

2017 January Statistical Inference, Dr. Behnam Bahrak
- R workshops: Introdution to R and RStudio
- Final Project: a comprehensive data analysis using datasets from Kaggle

2017 January Natural Language Processing, Dr. Heshaam Faili
- Case study: writer detection using tokenization (NLTK), language model (kenLM), perplexity
- Case study: persian tokenizer using N-gram, HMM
- Case study: topic modeling using LDA, PersianP, point mutual information, and heatmap for visualization

2013 June Data Structures, Dr. Mohsen Ebrahimi Moghadam
- Final project: design and implement a data structure using optimal BST's (i.e. AVL, red-black tree) to store a movie database silimal to IMDb using C++

2013 October Algorithms Analysis and Design, Dr. Ramak Ghavamizadeh
- Online programming contests using C++ STL, and algorithm design techniques

2014 June	Artificial Intelligence, Dr. Mehrnoush Shamsfard
	○ Final project: develop a chatbot using C++
	○ Prolog workshops
2015 June	Computer Networks, Dr. Mona Ghassemian
	○ Case study: simulate a file-sharing system using Java client/server architecture and socket programming
	○ Case study: IP configuration management using CISCO Packet Tracer
	○ WireShark workshops
2015 September	Software Engineering (II), Dr. Sadegh Aliakbary
	○ Course project: develop an online shopping website (e.g. Digikala.com)
2015 September	Database, Dr. Hassan Haghighi
	○ Course project: develop a website for Train Ticket Reservation using PHP, MySQL, jQuery, and Bootstrap
2016 February	Strategic Planning and Information Technology Management, Dr. Fereydoon Shams
	○ Case study: Business Intelligence (BI)
	○ Case study: design architectural diagrams using Archi
2016 February	Internet Engineering, Dr. Sadegh Aliakbary
	○ Course project: design and implement a website that links employees to employers (e.g. Linkedin.com) using Java Enterprise Edition (JEE) and related technologies (e.g. Spring, Hibernate, JPA)