




Eric (Ehsan) Qasemi

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Education

PhD. in Computer Science Cont.
Univ. of Southern California 3.3/4.0

MSc. in Computer Science 2018
Univ. of Wisconsin-Madison 3.56/4.0

MSc. in Computer Engr. 2018
Univ. of Wisconsin-Madison 3.56/4.0

BSc. in Electrical Engr. 2015
University of Tehran 16.12/20.0

Skills

LANGUAGES: C/C++, Python, Java,
Scala, Matlab, Julia, Cuda

ML&DS: Tensorflow, Torch, Keras,
Pandas, Matplotlib, Bokeh, scikit

HPC: Hadoop (HDFS, Tez), Spark
(SQL, Streaming, GraphX), Apache
(Hive, Storm, Flink)

DATABASES: SQL, SQL-Lite, Redis,
ElasticSearch, RocksDB, MongoDB

Web: Flask, Django, HTML, CSS,
JavaScript

Honors

Research Scholarship Recipient from
University of Southern California
(2018)

1st place in National Digital System
Design Competition, HW/SW
Co-design League, Iran (2013)

1st place in 2D Soccer Simulation
Competition, Iran (2008)

Ranked as 57 among $\approx 500,000$
students in National Universities
Entrance Exam, Iran (2010)

Voluntary

President at Persian Student's Society
of UW Madison (PSS) 2015-2017

Board Member of the first Iranian film
festival (WIFF), March '17

Work Experience and Internships

Research Intern

Information Sciences Institute, Marina Del Ray, CA Summer '18

Designed a Meta-Learning pipeline recommender system for automated machine learning in high dimensional structured datasets

Software/Hardware Engineer

IWIN Co., Tehran, Iran 2014, '15

SoC Hardware Security Module (HSM) for banking applications

10x improvement on AES, 9x improvement on key manager, and 4x improvement on RSA

Lead the HW team to design cryptography algorithms and secure key managers

Research Intern

Pardis Co, Tehran, Iran Summer '16

Designed an Embedded low cost server for real-time media encryption

Software Engineer

S.T.Farabi Co., Sanandaj, Iran 2013, '14

Genetic algorithm (GA) based real-time robotic arm controller on FPGA platform.

Research and Projects

Neural Common Sense

Los Angeles, CA Fall '19

Study on neural common sense reasoning based on a mixture of Language models and common sense knowledge graphs.

Knowledge Graph Embedding for Table Parsing

Los Angeles, CA Summer '19

Study on representational capacity of graph embedding for ontology mapping in Knowledge Graphs

T2WML: an annotation scheme to simplify knowledge extraction from tabular data

Tabular Data to Knowledge Graph: Understand table context and map the content to knowledge graphs such as dbpedia and wikidata

End-to-End AutoML

Los Angeles, CA Jan-May '19

Study on Meta-learning approaches for E2E-AutoML with focus on data-preparation

DSBox: End-to-End Automated Machine Learning system

Beats state-of-the-art E2E-AutoML systems and human baseline on D³M's datasets

Discovery of Autism Spectrum Disorder (ASD)

Madison, WI 2016-'18

Research and development in big heterogeneous spatiotemporal data

Designed deep LSTM model for ASD prediction

Selected Publication

AutoML E. Qasemi, S. Stan, K. Yao, R. Shao, J. Liu, M. Liang, L. J. Ferrer, P. Szekely, "DSBox: Data Scientist in a Box", ISI Graduate Student Symposium (GSS '19), Marina Del Rey, California, USA.

ML Z. Liz Li, E. Qasemi, A. Ardalani, H. Gao, A. H. Assadi, "A Computational Model for Mental Face Spaces: Deep Learning Empirical Space of Faces", The 2017 International Conference on Computational Science and Computational Intelligence (CSCI 17), Dec 2017, Las Vegas, USA.

DS A. H. Assadi, P. Han, E. Qasemi, A. Ardalani, H. Gao, "Deep Learning Empirical Topology for Classical Music Style Decision Making", The 2017 International Conference on Computational Science and Computational Intelligence (CSCI 17), Dec 2017, Las Vegas, USA.

AI E. Qasemi, Mohammad H. Shadmehr, Bardia Azizian, Amir Samadi, Sajjad Mozaffari, Amir Shirian and Bijan Alizadeh, "Highly Scalable, Shared Memory, Monte Carlo Tree Search based Blokus Duo Solver on FPGA", International Conference on Field-Programmable Technology (FPT), 2014.

