Ehsan Kamalloo

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EDUCATION

2016 - *Present* **Ph.D. Computing Science**, University of Alberta, Edmonton, Canada.
Thesis: "Semantic Matching in Natural Language Text At Scale"
Supervised by Davood Rafiei
GPA: 4.0/4.0

2008 - 2011 **M.Sc. Software Engineering**, Tarbiat Modares University, Tehran, Iran.
Thesis: "Credit Card Management Using Artificial Immune System"
GPA: 15.91/20

2004 - 2008 **B.Sc. Software Engineering**, University of Tehran, Tehran, Iran.
Thesis: "A Morphology-based Stemmer for Persian language"
GPA: 15.28/20

RESEARCH INTERESTS

Natural Language Processing • Information Retrieval • Dialogue Systems • Generative Models for Natural Language • Big Data Analytics

RESEARCH EXPERIENCE

Present
2016 | **Research Assistant**, University of Alberta, Edmonton, Canada.
Study scalability problems of semantic matching techniques on natural language text,
Worked on neural end-to-end dialogue systems using Sequence-to-Sequence models with Attention mechanism.

2011
2008 | **Research Assistant**, Tarbiat Modares University, Tehran, Iran.
Devised a classifier to extract if-then rules exploiting evolutionary algorithms and fuzzy logic.

2008 | **Research Assistant**, University of Tehran, Tehran, Iran.
Developed a stemmer for Persian language based on morphological analysis.

PUBLICATIONS

Conference Proceedings

[1] **Ehsan Kamalloo** and Davood Rafiei (2018), "A coherent unsupervised model for toponym resolution", in *World Wide Web (WWW) Conference*, pp. 1287-1296.

[2] **Ehsan Kamalloo** and Mohammad Saniee Abadeh (2010), "An artificial immune system for extracting fuzzy rules in credit scoring", in *IEEE Congress on Evolutionary Computation (CEC)*, pp. 1-8.

[3] **Ehsan Kamalloo** and Mohammad Saniee Abadeh (2010), "Comprehensible credit scoring with fuzzy artificial immune system", in *18th Iranian Conference on Electrical Engineering (ICEE)*, pp. 542-547.

[4] Abolfazl AleAhmad, **Ehsan Kamalloo**, Arash Zareh, Masoud Rahgozar, and Farhad Oroumchian (2008), "Cross language experiments at Persian@ CLEF 2008", in *Cross Language Evaluation Forum (CLEF)*, pp. 105-112.

Journal

[5] **Ehsan Kamalloo** and Mohammad Saniee Abadeh (2014), "Credit risk prediction using fuzzy immune learning", in *Advances in Fuzzy Systems*, 2014: 7.

Professional Experience

2016 2013	Director of Research and Development at ODDRUN startup, Tehran, Iran Led a 3-person technical team in R&D, Developed a recommender system for who-to-follow in a location-based social network, Orchestrated a real-time engine to synchronize data with external applications through live data streaming via Kafka, Apache Spark and Redis.
2013 2010	Software Architect and Senior Software Engineer at FANAP, Tehran, Iran Led a 4-person technical team in the insurance solution division, Developed a code generator (JSF, Spring, and Hibernate ORM) based on model-driven development guidelines, Involved in recruitment of new technical staff, Directed team meetings to check on progress and assign tasks to team members.
2010 2008	Software Engineer at FANAP, Tehran, Iran Analyzed, designed, and developed property insurance module, life insurance module, and accounting platform as subsystems of a core enterprise solution aimed for insurance corporations.

Teaching Experience

2018 - *Present*	**Teaching Assistant** for Database Management Systems, CMPUT391.
2016 - 2018	**Teaching Assistant** for Introduction to File and Database Management, CMPUT291.

Honors and Awards

2018	Recipient of Graduate Student Teaching Award recognized by Faculty of Graduate Studies and Research.
2008	Ranked 132nd among +10,000 participants in nation-wide graduate studies entrance exam (Earned admission to Tarbiat Modares University).
2004	Ranked 610th among approximately 400,000 participants in nation-wide undergraduate studies entrance exam in Mathematics and Physics (Earned admission to University of Tehran).

Technical Competencies

Programming Language:	Python, Java, Scala, C/C++, Lua, MATLAB
Database:	Oracle, MySQL, PostgreSQL, SQLite
Build Manager:	C/C++ Makefile, Ant, Maven, SBT
Framework:	Tensorflow, Hadoop, Spark, Elasticsearch, Kafka, Redis, Lucene, Spring, Hibernate ORM

Volunteer Experience

2018 - *Present*	Treasurer at Computing Science Graduate Students' Association (CSGSA)
2017 - *Present*	Representative at University of Alberta Swim Club (UASC)
2016 - *Present*	Databases Lab Manager at University of Alberta