

PERSONAL
INFORMATION

Birth Place: Mashhad, Iran
Birth Date: August, 1984
Marital Status: Married



CONTACT
INFORMATION

Computer Engineering Department
Ferdowsi University of Mashhad, Mashhad, Iran
Member of Web Technology Lab. (<http://wtlab.um.ac.ir/>)
Email: Asgarian@alum.sharif.edu , ehsan.asgarian@mail.um.ac.ir
Web: <http://alum.sharif.edu/~asgarian>

EDUCATION

PhD Student of Software Engineering

Computer Engineering Department,
Ferdowsi University of Mashhad, Mashhad, Iran (2011~2017)
Thesis Title: *"Designing an integrated semantic framework for structured opinion summarization"*
Advisor: Prof. M. Kahani
GPA: 18.18/20

Master Student in Software Engineering

Computer Engineering Department,
Sharif University of Technology, Tehran, Iran (2006~2008 – 4 terms)
Thesis Title: *"Haplotype Reconstruction using Clustering Techniques"* (Grade: 20 out of 20)
Advisor: Dr. J. Habibi & Prof. M. Ghodsi
GPA: 17.60/20.

Bachelor of Science in Software Engineering

Faculty of Engineering, Islamic Azad University of Mashhad, Iran (2002~2005 – 7 terms)
Thesis Title: *"Design Combinational Logic Circuits using Genetic Algorithm"* (Grade: 20 out of 20)
Advisors: Dr. Yaghoobi
GPA: Overall 17.78/20, Two final years 18.84/20

High School (and College) Diploma in Mathematics and Physics

- **High School Diploma:** Jaber-ebn-Hayan High School, Mashhad, Iran (1998~2001)
GPA: 17.97/20.0
 - **College Diploma:** Sama 1 High School, Mashhad, Iran (2001~2002)
GPA: 18.13/20.0
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RESEARCH
INTERESTS

Current:

- Natural Language Processing, Opinion Mining , Text Mining and Information Extraction
- Data Mining, Knowledge Engineering and Business Intelligence

Previous:

- Bioinformatics and Computational Biology
 - Soft Computing (Swarm Optimization, Evolutionary Optimization, ...)
 - Machine Learning & Pattern Recognition (Clustering Techniques)
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MS & PhD
COURSES

- *Data Mining*
- *Object Oriented Methodologies*
- *Advanced Software Engineering*
- *Semantic Web*
- *Performance Evaluation of Computer Systems*
- *Advanced Algorithms*
- *Modeling and Analysis of Computer Networks*
- *Fuzzy Systems*
- *Decision Supported Systems*
- *Advanced Topics in Evolutionary Computing*
- *Human-Computer Interaction*
- *Knowledge-based Systems*

HONORS AND
AWARDS

- Accepted as a PhD. student as a talented student without entrance exam (with grant from MSRT [Ministry of Science, Research and Technology]), Department of Computer Engineering, Ferdowsi University Mashhad (FUM), Mashhad, Iran.
- Ranked 4th in "National Scientific Olympiad for University Students" in Computer Engineering, Stage I, Tehran, Iran.
- Ranked 11th in "National Scientific Olympiad for University Students" in Computer Engineering, Stage II, Tehran, Iran.
- Ranked 3th in "National Entrance Exam for M.Sc. Studies" in Software Engineering major, among more than 8'000 B.Sc. students.
- Ranked 8th in "National Entrance Exam for M.Sc. Studies" in Artificial Intelligence major, among more than 8'000 B.Sc. students.
- Ranked 16th in "National Entrance Exam for M.Sc. Studies" in Hardware Engineering major, among more than 8'000 B.Sc. students.
- Ranked 27th in "National Entrance Exam for M.Sc. Studies" in IT major, among more than 7'000 B.Sc. students.
- Recipient of B.S. degree with highest honor (ranked 1st among 140 students) from Islamic Azad University of Mashhad, Iran.
- Ranked 4th in, RoboSoccer Simulation Contest, Islamic Azad University Mashhad.

PUBLICATIONS

Thesis:

- ***Design Combinational Logic Circuits using Genetic Algorithm***, Supervisor: Dr. M. Yaghoobi, Computer Engineering Department, Islamic Azad University of Mashhad 2005.
- ***Haplotype Reconstruction using Clustering Techniques***, Supervisor: Dr. J. Habibi, Computer Engineering Department, Sharif University of Technology 2008.
- ***Designing an integrated semantic framework for structured opinion summarization***, Supervisor: Prof. M. Kahani, Computer Engineering Department, Ferdowsi University of Mashhad 2017.

Journal:

- **E. Asgarian**, M. Kahani, Sh. Sharifi, "The Impact of Sentiment Features on the Sentiment Polarity Classification in Persian Reviews", published in the Cognitive Computation
-

Journal (ISI), pp 1-19, Nov 2017.

- **E. Asgarian**, M. Kahani, Sh. Sharifi, "HesNegar: Persian Senti-WordNet", accepted in the Signal and Data Processing Journal (ISC), November 2016. (in Persian)
- M. Zanjani, A.B. Dastjerdi, **E. Asgarian**, A. Shahriari, A.A.Kharazian, "A New Experience in Persian Text Clustering using FarsNet Ontology", published in the Journal of Information Science and Engineering (ISI), ISSN 1016-2364, June 2014.
- M.H. Moeinzadeh, **E. Asgarian**, "Information Fusion and Multiple Classifiers for Haplotype Assembly Problem from SNP Fragments and Related Genotype", published in Journal of Bioinformatics and Sequence Analysis, ISSN 2141-2464, Vol. 3(4), pp.63-69, May 2011.
- M.H. Moeinzadeh, **E. Asgarian**, S. Sharifian, "A Neural Network Based Approaches, Solving Haplotype Reconstruction in MEC and MEC/GI Models", published in the Neural Computing and Applications (ISI), Springer Journal, ISSN 0941-0643, June 2013, Vol(22), Issue 7-8, pp 1397-1405.

Conferences:

- S. Elmi, **E. Asgarian**, M. Kahani, etc., "A study of the arousal, valence and dominance of words which have been used in common Persian website's title", published in the International Conference on Research in Behavioral and Social Science, Turkey, 2015. (In Persian)
 - M. Asghari, M. Kahani and **E. Asgarian**, "Opinion mining using semantic annotation and sentiment relation extraction on the Persian sentences", published in the 20th National Computer Science, Iran, (CSI 2015), 2015. (In Persian)
 - T. Fadaie, M. Kahani and **E. Asgarian**, "Information extraction in Persian text for converting text to RDF", published in the 20th National Computer Science, Iran, (CSI 2015), 2015. (In Persian)
 - N. Jahangiri, S. Noorbakhsh, M. Kahani and **E. Asgarian**, "Verb tenses tagging in Persian sentences using default semantics theory and a rule-based learning system", published in the 1st National Conference on the Semantics and Syntax of Iranian Language, Iran, 2015. (In Persian)
 - **E. Asgarian**, M. Kahani, "Designing an integrated semantic framework for structured opinion summarization", published in the European Semantic Web Conference (EWSW 2014-PhD Symposium), 2014.
 - S. Shafiee, M. Kahani and **E. Asgarian**, "Discovering rules on the semantic web queries to help human users to write queries in SPARQL", published in the 19th National Computer Science, Iran, (CSI 2014), 2014. (In Persian)
 - N. Noori, M. Kahani and **E. Asgarian**, "Design a semantic role labeling tools using FramNet for Persian Language", accepted in the 6th Conference on Information and Knowledge (IKT 2014), 2014. (In Persian)
 - K. Fatehi, M.S. Zahedi, A.Bozorgi, **E. Asgarian**, "Design a Semi-Supervised Clustering with User Feedback", published in the 18th National Computer Science, Iran, (CSI 2013), 2013.
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(In Persian).

- A. Estiri, M. Kahani, M. Hoseini and **E. Asgarian**, "Designing Persian language parser tool", accepted in the International Conference on Asian Language Processing (IALP 2012), Nov 2012 – publish in the First International Conference of Persian language processing, Semnan University, 2012 (Persian Version).
 - **E. Asgarian**, M. Kahani,"Classification on application of the semantic techniques in business intelligence", published in the 4th Conference on Information and Knowledge Technology (IKT2012), Babol Noshirvani University of Technology, 2012. (In Persian)
 - **E. Asgarian**, M. Rouhani,"Eigen Vectors Selection in Spectral Clustering using Multi-Objective Genetic Algorithm", accepted in the 17th National CSI Computer Science, Iran, 2012. (In Persian)
 - **E. Asgarian**, M. Moeinzadeh,"*New Consensus Framework by Combination of Simple Voting Approach and Classification Algorithm*", accepted in the 16th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), Springer-LNCS-LNAI, May 2012.
 - S. Poursiah-Navi, **E. Asgarian**, H. Moeinzadeh, V. Chahkandi, "*Using Harmony Search for Solving a Typical Bioinformatics Problem*", published in the International IEEE Conference on Informatics and Computational Intelligence, pp.18-20, Dec 2011.
 - R. Taghipour, N. Ganoodi, **E. Asgarian**, "A Probabilistic Branch-and-Bound Approach for Reconstructing of Haplotype Using SNP-Fragments and Related Genotype", published in the International IEEE Conference on Informatics and Computational Intelligence, pp.41-44, Dec 2011.
 - S. Sharifian-R, A. Baharian, **E. Asgarian**, A. Rasooli, "*A combination of PSO and k-means methods to solve haplotype reconstruction problem*", published in the International IEEE Conference on Innovations in Information Technology (IIT'09), pp. 190-194, Dec 2009.
 - **E. Asgarian**, M-H. Moeinzadeh, J. Habibi, M. Sadeghi, M. Mohammad-Noori, "*Improved Genetic Algorithm, Using K-means Clustering Method, for Haplotype Reconstruction with and without Genotype Information*", accepted in the 10th International Conference on Intelligent Data Engineering and Automated Learning, (IDEAL 2009), Springer-LNCS-LNBI, Sep 2009.
 - M. Moeinzadeh, **E. Asgarian**, M. Zanjani, A. Rezaee, "*Combination of Harmony Search and Linear Discriminate Analysis to Improve Classification*", published in the third IEEE Asia International Conference on Modelling & Simulation, May 2009.
 - H. Ahmadi, A. Mehrbakhsh, **E. Asgarian**,"*Towards an Efficient Method for Spreading Information in Social Network*", published in the third IEEE Asia International Conference on Modelling & Simulation, May 2009.
 - M-H. Moeinzadeh, **E. Asgarian**, M.M. Noori, M. Sadeghi, S. Sharifian-R, "*F.C.A: Designing a fuzzy clustering algorithm for haplotype assembly*", published in the 2009 IEEE International Conference on Fuzzy Systems (Fuzzy-IEEE2009), pp. 1741-1744, August 2009 and accepted in the 8th International Conference on BioInformatics and BioEngineering
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(BIBE), Oct 2008.

- **E. Asgarian**, M-H. Moeinzadeh, J. Habibi, S. Sharifian, A. Rasooli, A. Najafi, "Solving Haplotype Reconstruction Problem in MEC Model with Hybrid Information Fusion", published in the Second IEEE European Symposium on Computer Modelling and Simulation-Bioinformatics, pp. 214-219, Sep 2008.
- **E. Asgarian**, M.H. Moeinzadeh, A. Najafi, S. Sharifian, J. Habibi, "Solving MEC Model of Haplotype Reconstruction Using Information Fusion, Single Greedy and Parallel Clustering Approaches", published in the 6th ACS/IEEE International Conference on Computer Systems and Applications, pp. 15-19, April 2008.
- **E. Asgarian**, H.Moeinzadeh, M.Soryani and J. Habibi, "A Novel Genetic Fuzzy Clustering", published in the 13th National CSI Computer Science, Iran, March 2008. (In Persian)
- **E. Asgarian**, M-H. Moeinzadeh and J. Habibi, "Using Parallel Fusion Clustering Method to Solve Haplotype Assembly", published in the First International Conference on Electronic City, Iran, Feb 2008.
- **E. Asgarian**, M.H. Moeinzadeh, A. Najafi, S. Sharifian, J. Habibi, J. Mohammadzadeh, "Solving MEC and MEC/GI Problem Models Using Information Fusion and Multiple Classifiers", published in the 4th IEEE International Conference on Innovations in Information Technology (Innovations'07), pp. 397-401, Nov 2007.
- M.H. Moeinzadeh, **E. Asgarian**, et al. "Three Heuristic Clustering Methods for Haplotype Reconstruction Problem with Genotype Information", published in the 4th IEEE International Conference on Innovations in Information Technology (Innovations'07), pp. 402-406, Nov 2007.
- **E. Asgarian** and J. Habibi, "Towards Automated Evolutionary Design of Combinational Circuits with Genetic Algorithms", published in the First Joint Congress on Fuzzy and Intelligent Systems, Ferdowsi University of Mashhad, Iran, Aug 2007. (In Persian)
- D.Q. Fard, A.N. Ardabili, M.H. Moeinzadeh, S. Sharifian-R, **E. Asgarian**, J. Mohammadzadeh, "Finding Feasible Timetables with Particle Swarm Optimization", published in the 4th IEEE International Conference on Innovations in Information Technology (Innovations'07), pp. 387-391, Nov 2007.

Research Assignments and Technical Reports:

- "An overview on Natural Language Processing, Information Retrieval and Semantic Web", Ferdowsi University of Mashhad, Mashhad, Iran, Feb 2014.
 - "Feature-based opinion summarization", Ferdowsi University of Mashhad, Mashhad, Iran, May 2013.
 - "Design a prototype of serious training game for students by user-center design principles", Ferdowsi University of Mashhad, Mashhad, Iran, July 2012.
 - "First Try for a Persian Lemmatizer", Department of Computer Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, June 2012.
 - "Ontology supported Business Intelligent", Department of Computer Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, December 2011.
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- *"Fuzzy Clustering and its Application for inferring membership function in FIS"*, Department of Computer Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, December 2010.
 - *"Fuzzy Modeling"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, January 2008.
 - *"Bioinformatics Data Clustering with Soft Computing"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, January 2008.
 - *"Fuzzy Clustering Approaches"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, November 2007.
 - *"Ontology Based Text Clustering and Classification"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, August 2007.
 - *"The Finite Capacity Dial-A-Ride Problem"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, July 2007.
 - *"Adaptive Resonance Theory (ART)"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, July 2007.
 - *"Performance evaluation of web caching techniques"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, June 2007.
 - *"Analysis of MDA-based Methodologies"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, May 2007.
 - *"MDA in Practice"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, March 2007.
 - *"Fuzzy and Evolutionary Data Clustering"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, February 2007.
 - *"Situational Method Engineering"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, December 2006.
 - *"IBM Rational Method Composer"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, December 2006.
 - *"Process Pattern and Generic Life Cycle for Agile Methodologies"*, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, November 2006.

WORKSHOP
ATTENDANCE

- Presenter in: **Business Intelligence and Data Mining using Microsoft SQL Server 2016**, ICCKE2017, Workshop, at Ferdowsi University of Mashhad, November 2017.
 - **Introduction to Business Process Modeling (BPM)**, at MMH, July 2017.
 - **Introduction to Scrum Methodology**, Sharif University of Technology, Feb 2017.
 - Presenter in: **Persian Text Processing Tools**, ICCKE2016 Workshop, at Ferdowsi University of Mashhad, July 2016.
 - Presenter in: **Data Mining: Concepts, Techniques, Applications and Tools**, Workshop, at Mashhad Municipality, Feb 2015.
 - Presenter in: **Introduction to Data Mining**, Workshop, at Khorasan Telecommunications Center, November 2015.
 - Presenter in: **Opinion Mining: Task, Challenge and Open Problems**, ICCKE2014,
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Workshop, at Ferdowsi University of Mashhad, November 2014.

- **Presenter in: Practical Data Mining**, at Information Technology Center of Municipality, Mashhad, October 2014. (18 hours)
 - **Presenter in: Natural Language Processing Tools**, Workshop at Ferdowsi University of Mashhad, July 2013.
 - **Workshop on Soft Data Mining**, at Ferdowsi University of Mashhad, July 2012.
 - **Link Data and its Applications**, at Web Technology Lab, Ferdowsi University of Mashhad, December 2011.
 - **Workshop on Soft Computing and Intelligent Systems**, at Ferdowsi University of Mashhad, May 2011.
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RESEARCH PROJECTS

- Business intelligence deployment (Microsoft BI stack), 2017.
 - Opinion Summarization (Aspect-based sentiment analysis), 2014-2017.
 - Convert address to coordinates (latitude longitude) on map, 2016.
 - Plagiarism Detection System, 2016-2017.
 - Persian NLP Tools, 2012-2016 :
 - Slang to Formal converter
 - Part-of-Speech (POS) Tagger
 - Semantic Stemmer (Lemmatizer for Persian Language)
 - Sentence Splitter
 - Tokenizer
 - Normalizer
 - Persian WordNet, 2013-2016.
 - Persian Text Summarizer, 2012.
 - Ontology-based Spam Detection System, 2011.
 - Data Mining Project Collaboration, 2009-2017:
 - Question Answering System
 - Mashhad Municipality
 - Telecommunications Service Center
 - Insurance Customer Service
 - Factors of heart disease
 - Traffic Analysis and Road Accidents
 - Insurance Risk Prediction
 - Ensemble Clustering, 2009-2012.
 - Haplotype (key part of Genome) Reconstruction Problem, 2007-2008.
 - Fuzzy Modeling: Sugeno-Yasukawa and Takagi-Sugeno, 2007.
 - Ontology-based Text Clustering, 2007.
 - Finding Feasible Timetables, 2006-2007.
 - Design of Combinational Circuits with Genetic Algorithms, 2005.
 - Development of RoboSoccer Simulation Program, 2003-2004.
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SEMINARS

- Persian Opinion Summarization, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *fall 2017*.
 - Text Mining, Seminar in Open Software Talks, Mashhad, Iran, *summer 2017*.
 - Deep Dive to Elasticsearch, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *spring 2017*.
 - Extract Semantic Relation from Text, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *summer 2016*.
 - Big Data Technologies, Seminar in IranCom2016, Mashhad, Iran, *spring 2016*.
 - Data Mining (Concepts, Techniques, Applications, Tasks, Tools and Process), Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *winter 2015*.
 - An unsupervised approach for Persian WordNet construction, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *summer 2015*.
 - Ontology Learning from Text, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *winter 2014*.
 - Text Similarity, Seminar in WTLab, Ferdowsi University of Mashhad, Mashhad, Iran, *summer 2014*.
 - Designing an ontology for opinion linked data, Seminar in Computer Science Research, Ferdowsi University of Mashhad, Mashhad, *spring 2014*.
 - Feature-based opinion summarization, Seminar in Computer Science Research, Ferdowsi University of Mashhad, *spring 2013*.
 - Opinion Mining and Sentiment Analysis, Seminar in WTLab, Ferdowsi University of Mashhad, *winter 2013*.
 - Ensemble Clustering, Seminar in WTLab, Ferdowsi University of Mashhad, *summer 2012*.
 - Matlab programming for information retrieval, Seminar in Knowledge-based Systems Course, Ferdowsi University of Mashhad, *winter 2012*.
 - Cluster Validity Methods, Seminar in WTLab, Ferdowsi University of Mashhad, *winter 2011*.
 - Ontology supported Business Intelligent, Seminar in Decision Support Systems Course, Ferdowsi University of Mashhad, *fall 2011*.
 - Fuzzy Clustering and its Application for inferring membership function in FIS, Seminar in Expert Systems & Knowledge Engineering Course, Ferdowsi University of Mashhad, *fall 2010*.
 - Haplotype Reconstruction using Clustering Techniques, Sharif University of Technology, *summer 2008*.
 - Bioinformatics Data Clustering with Soft Computing, Seminar Course, Sharif University of Technology, *winter 2008*.
 - Ximulator 1.0-An Object Oriented Listener-based Network Simulator, Seminar in Modeling and Analysis of Computer Networks Course, Sharif University of Technology, *fall 2007*.
 - Fuzzy Clustering, Seminar in Fuzzy Systems Course, Sharif University of Technology, *fall 2007*.
 - Ontology based Text Clustering, Seminar in Semantic Course, Sharif University of Technology, *spring 2007*.
 - Adaptive Resonance Theory and its Application in Text Clustering, Seminar in Neural Network Course, Sharif University of Technology, *spring 2007*.
 - Performance Evaluation of Web Caching Techniques, Seminar in Performance Evaluation Course, Sharif University of Technology, *spring 2007*.
 - Model Driven Architected, Seminar in Advance Software Engineering Course, Sharif University of Technology, *fall 2006*.
 - Workshop on NTFS File System, Azad University of Mashhad *fall 2005*.
 - Evolutionary Computing Techniques, Seminar in Azad University of Mashhad, *spring 2005*.
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SCIENTIFIC SERVICES

I was reviewer of

- Bioinformatics-Oxford Journals, Bioinformatics (ISI Impact Factor: 4.894 in 2006), 2008~2009.
 - IEEE Transactions on Knowledge and Data Engineering Journal, (ISI Impact Factor: 2.81), 2010.
 - Neural Computing and Applications journal, (ISI Impact Factor: 1.16), 2012.
 - The International Conference on Computer and Knowledge Engineering (ICCKE), 2013~2017.
 - Computer and Knowledge Engineering (CKE) Journal, 2017
-

ACADEMIC TEACHING EXPERIENCE

- Supervisor of more than 15 BSc. Thesis (2010-2015)
 - Ferdowsi University of Mashhad (2012-2017)
 - Quchan Institute of Engineering and Technology (2008-2012)
 - Payam-noor University of Mashhad (2008-2013)
 - Islamic Azad University of Mashhad (2008)
 - Imam Reza(a) University of Mashhad (2008)
 - Sadjad Institute of Higher Education (2008-2009)
 - Khayam Higher Education Institute (2008)
 - Khorasan Higher Education Institute (2008)
 - Bahar Institute of Higher Education (2008)
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LANGUAGE SKILLS

- **English:** Fluent
 - **Persian:** Native
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PROFESSIONAL SKILLS

- Programming languages (Professional): C#.Net, Mobile (Android) Programming
 - Programming languages (Academical): Python, Matlab, C/C++, Java
 - Data Mining Tools: Weka, Rapid Miner, Clementine (IBM SPSS Modeler), STATISTICA
 - Business Intelligence Tools: Microsoft SQL Server Analysis/Integration/Reporting Services
 - Web design and programming: HTML, Javascript, jQuery, PHP, ASP, ASP.Net
 - Database design and management: MS SQL Server, MySQL, SQLite, MS Access DB
 - Information Extraction Tools and NoSql Database: RaptorDB, Lucene, ElasticSearch
 - Software design and analysis: Design Patterns, UML, Agile Object-Oriented Methodologies
 - Desktop Tools: MS Project, MS Office, Adobe Photoshop
 - Expertise in designing and implementing the infrastructure for business solutions based on the Microsoft Windows 2003 Server platform and Windows Server System. (Microsoft Certified Systems Engineer [MCSE] certification)
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REFERENCES

References will be provided upon request.
