



Seyed-Saeid Masoumzadeh

Curriculum Vitae

Education

- 2012–2017 **PhD in Computer Science**, *University of Vienna*, Austria, Thesis Title: Autonomic Management of Virtual Machines in Cloud Data Centers Using Machine Learning .
- 2006–2009 **MSc In Artificial Intelligence**, *Azad University*, Iran, Thesis Title: Intelligent and Adaptive Active Queue Management in Packet Switching Networks.
- 1999–2004 **BSc In Computer Engineering - Hardware**, *Azad University*, Iran.

Skills

Programming	Python, Java
Deep Learning Frameworks	Tensorflow, Keras
Machine Learning/Data Analysis	Sklearn, Pandas, Looker, SQL
Scientific Computing/Mathematics	Numpy, SciPy
Visualization	Matplotlib, seaborn
NLP tools	Spacy, NLTK, Rasa NLU, Gensim

Professional Experience

- 2.2018–Present **Data Scientist**, *Lyst*, London, UK.
- Research and development on machine learning and deep learning techniques to build ranking algorithms and recommendation systems.
 - Research and development on NLP, machine learning and deep learning techniques in search and information retrieval on e-commerce e.g. query interpretation, query completion.
- 9.2016–Present **Co-Founder**, *Cyra/RECBO Corp LTD*, London, UK.
- Cyra is an A.I virtual assistant in Recruitment, using a blend of state of the art technologies in Machine Learning and NLP. It is able to talk with customers through a chat interface, "understand" their hiring needs and then provide and "recommend" the best candidates to them. Cyra is backed by Entrepreneur First (EF).

- 9.2016-1.2018 **CTO & Data Scientist**, *Cyra/RECBO Corp LTD*, London, UK.
- Research and development on Deep Learning and Natural Language Processing techniques to build a specialised Conversational Agent (Bot Engine) and a Recommender System.
 - Research and development on Supervised/Unsupervised techniques in Text Classification, Sentiment Analysis, Relevance Feedback, Entity Recognition, Intent Recognition and Exploratory Search.
- 3.2016-8.2016 **Entrepreneur in Residence**, *Entrepreneur First*, London, UK.
- Entrepreneur First is the only seed investment programme that selects purely on the basis of technical talent. It takes the best computer scientists and engineers, usually before they have a team or a startup idea, and help them build technology startups in London. 3% Acceptance rate. I have co-founded Recbo Corp LTD/CYRA at EF and received an initial funding after graduation..
- 8.2015-1.2016 **Machine Learning Developer**, *Eco Talent Discovery/Stackbox*, London, UK.
- Research and development on a specialised Recommender System using Natural Language Processing and Machine Learning techniques to provide the best job roles for a given candidate profile.
 - Research and development on Keyword Extraction, Knowledge Discovery and Big Data analysis.
- 3.2012-8.2015 **PhD Researcher**, *University of Vienna*, Vienna, Austria.
- Research on Autonomic Management of Virtual Machines in Cloud Data Centers Using Machine Learning approaches in special Reinforcement Learning Algorithms and Multi Agent Systems.
- 5.2015-6.2015 **Visiting Researcher**, *Umea Univeristy*, Umea, Sweden.
- During this research visit, we developed a self adaptive capacity controller for overbooked datacenters using a reinforcement learning algorithm, led to publish one poster and one full paper in ICAC 2016 and ICCAC 2016 respectively and received the best paper award from ICCAC 2016.

Certificates

- Jan-Feb 2016 **Machine Learning for Data Analysis**, *Wesleyan University*, Coursera.
- Aug-Oct 2015 **Cloud Computing Applications**, *University of Illinois Urbana Champaign*, Coursera.

Publications

- Journal Articles S. Brienza, S.E. Cebeci, S. S. Masoumzadeh, H. Hlavacs, O. Ozkasap, G. Anastasi, "A Survey of Energy Efficiency in P2P Systems: File Distribution, Content Streaming and Epidemics", *ACM Computing Surveys*.
- S. S. Masoumzadeh, K. Meshgi, S. S. Ghidari, and G. Taghizadeh, "FQL-RED : an adaptive scalable schema for active queue management", *International Journal of Network Management*, vol. 21, no. 2, pp. 147–167, 2011.
- Book Chapters S. Brienza, S.E. Cebeci, S. S. Masoumzadeh, H. Hlavacs, O. Ozkasap, G. Anastasi, "Energy Efficiency in P2P Systems and Applications", In Jean-Marc Pierson editors, *Large-Scale Distributed Systems and Energy Efficiency: A holistic view*, Wiley, 2014.

- Peer-reviewed Conference Articles
- S. S. Masoumzadeh, H.Hlavacs and L. Tomas "A Self-Adaptive Performance-Aware Capacity Controller in Overbooked Datacenters", *Proc.2016 IEEE International Conference on Cloud and Autonomic Computing (ICCAC)*, Sep 12-16, 2016, Augsburg, Germany. **Received The Best Paper Award**
- S. S. Masoumzadeh, H.Hlavacs "A Gossip-Based Dynamic Virtual Machine Consolidation Strategy for Large-Scale Cloud Data Centers", *Proc.Third International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing*, July 25-28, 2016, Chicago, IL, USA.
- S. S. Masoumzadeh and H.Hlavacs, "A Cooperative Multi Agent Learning Approach to Manage Physical Host Nodes for Dynamic Consolidation of Virtual Machines", *IEEE 4th Symposium on Network Cloud Computing and Applications*, June 11-12, 2015, Munich, Germany.
- S. S. Masoumzadeh and H.Hlavacs, "Integrating VM Selection Criteria in Distributed Dynamic VM Consolidation Using Fuzzy Q-Learning", *Proc.9th International Conference on Network and Service Management (CNSM)*, pp. 332–338, Oct. 2013.
- S. S. Masoumzadeh and H. Hlavacs, "An Intelligent and Adaptive Threshold-Based Schema for Energy and Performance Efficient Dynamic VMs Consolidation", in *Energy Efficiency in Large Scale Distributed Systems*, 2013, pp. 85–97.
- F. K. Hedayati, S. S. Masoumzadeh, and S. Khorsandi, "SAFS: A self adaptive fuzzy based scheduler for real time services in WiMAX system", *9th International Conference on Communication (COMM 2012)*, pp. 247–250, 2012.
- S. S. Masoumzadeh, G. Taghizadeh, K. Meshgi, and S. Shiry, "Deep Blue: A Fuzzy Q-Learning Enhanced Active Queue Management Scheme", *2009 International Conference on Adaptive and Intelligent Systems (ICAIS'09)*, pp. 43–48, 2009.
- R. Sabzevari, A. Shahri, A. R. Fasih, S. S. Masoumzadeh, and M. R. Ghahroudi, "Object detection and localization system based on neural networks for Robo-Pong", in *2008 5th International Symposium on Mechatronics and Its Applications*, 2008, pp. 1–6.