Shayan Hashemi

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Education

2020–Present	**Ph.D. in Information Processing Science,** Department of Information Technology and Electrical Engineering, University of Oulu, Finland.
	Supervisor: Prof. Mika Mäntylä.
	Research Topic: Software Log Anomaly Detection.
2016–2019	**M.Sc. in Computer Engineering, Software,** Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.
	Supervisor: Dr. Mehran Safayani.
	Research Topic: Visual Question-Answering.
2010–2016	**B.Sc in Computer Engineering, Software,** Department of Computer, Azad University - Najafabad Branch, Iran.
	Project Advisor: Dr. Mehdi Jabalameli.

Publications

S. Hashemi and M. Mäntylä. "OneLog: Towards End-to-End Learning in Software Log Anomaly Detection".

S. Hashemi and M. Mäntylä. "SiaLog: Detecting Anomalies in Software Execution Logs using the Siamese Network".

S. Hashemi, M. Safayani, and A. Mirzayi. "Multiple answers to a question: a new approach for visual question answering" [Link].

M. Mäntylä, M. Varela, and **S. Hashemi**. "Pinpointing Anomaly Events in Logs from Stability Testing – N-Grams vs. Deep-Learning" [Link].

Articles

Neural Knapsack, *Solving the knapsack problem using neural netwoks*, [Link].

Neural Cryptography, *Neural embedding of a message into an image using deep neural networks*, [Link].

Research Experiences

2020-Present	**Doctoral Researcher**, *Software log anomaly detection*, University of Oulu.
2017-2019	**Master's Thesis Researcher**, *Multi-answer visual question answering using deep neural networks*, Isfahan University of Technology.

Teaching Experiences

Spring 2012	Teaching assistant for **Advanced Programming**, *Department of Computer, Azad University - Najafabad Branch, Iran.*
Fall 2012	Teaching assistant for **Principles of Computer and Programming**, *Department of Computer, Azad University - Najafabad Branch, Iran.*
Spring 2018	Teaching assistant for **Operating Systems**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*
Fall 2018	Teaching assistant for **Advanced Programming**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*

Spring 2022   Teaching assistant for **Next Generation of Software Engineering**, *Department of Information Technology and Electrical Engineering, University of Oulu, Finland.*

Work Experiences

Jan 2020 - Now   **AI Researcher**, *University of Oulu*, Software Log Analysis Research.

Dec 2017 - Apr 2019   **Junior Computer Vision Researcher**, *Isfahan University of Technology*, Investigating novel deep-learning-based approaches for visual question-answering problem.

Mar 2015 - Aug 2016   **Senior Software Engineer**, *Betternet Technologies*, iOS Developer in Betternet app team [Link], Android Developer in Betternet app team [Link], Embedded Linux Developer for Betterspot smart VPN router [Link] .

Jan 2013 - Jan 2014   **Senior Software Engineer**, *Zana Mob Co*, Android Developer.

May 2010 - Oct 2012   **Junior Software Engineer**, *BASA Co*, Java Developer.

Certificates

Coursera
- Improving Deep Neural Networks, *Deeplearning.ai*
- Structuring Machine Learning Projects, *Deeplearning.ai*
- Convolutional Neural Networks, *Deeplearning.ai*
- Sequence Models, *Deeplearning.ai*
- Natural Language Processing, *HSE University*
- Sequence, Time Series and Prediction, *Deeplearning.ai*
- Natural Language Processing with Sequence Models, *Deeplearning.ai*
- Natural Language Processing in TensorFlow, *Deeplearning.ai*

Project collaborations

- A natural language processing software for detecting spam email in Persian language. I was responsible with designing and implementing an NLP model to analyse the email content and label spams.
- A novel virtual private network(VPN) protocol for security, privacy, and content streaming called "Hexatech". [Link]. I was responsible with implementing the client for Linux, Android, and iOS using C++, Java, JNI, and Objective C.
- An intelligent software for pin pointing anomalous log lines in large stability test logs. I was responsible with parsing log messages into machine processable vectors.

References

1   **Professor. Mika Mäntylä**, *Department of Information Technology and Electrical Engineering, University of Oulu, Finland.*
mika.mantyla@oulu.fi

2   **Iman Rahmatizadeh**, *Fire Based Extension Lead, Google, 1600 Amphitheatre Parkway Mountain View, CA, USA.*
imanrahmati@google.com

3   **Dr. Mehran Safayani**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*
safayani@cc.iut.ac.ir

4   **Dr. Abdolreza Mirzaei**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*
mirzaei@cc.iut.ac.ir

5 **Dr. Mehdi Jabalameli**, *Department of Computer, Islamic Azad University Najafabad Branch, Iran.*
jabalameli@iaun.ac.ir