

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

Journal 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, A. Mirzayi. “Multiple answers to a question: a new approach for visual question answering” [Link].

Articles

- Neural Knapsack**, *Solving the knapsack problem using neural networks*, [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 - **AI Researcher**, *University of Oulu*, Software Log Analysis Research.
Now
- Dec 2017 - **Junior Computer Vision Researcher**, *Isfahan University of Technology*, Investigating novel
Apr 2019 deep-learning-based approaches for visual question-answering problem.
- Mar 2015 - **Senior Software Engineer**, *Betternet Technologies*, iOS Developer in Betternet app team [Link],
Aug 2016 Android Developer in Betternet app team [Link], Embedded Linux Developer for Betterspot smart
VPN router [Link] .
- Jan 2013 - **Senior Software Engineer**, *Zana Mob Co*, Android Developer.
Jan 2014
- May 2010 - **Junior Software Engineer**, *BASA Co*, Java Developer.
Oct 2012

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*

Selected Projects

- Machine Learning
- Persian spam email detection using deep neural networks.
- Network, Security, and Embedded Systems
- Client developer in “Hexatech”, a new virtual private network(VPN) protocol for security, privacy, and content streaming. [Link]
 - Embedded developer in “Betterspot”, a smart VPN router. [Link]

References

- Professor. Mika Mäntylä**, *Department of Information Technology and Electrical Engineering, University of Oulu, Finland.*
mika.mantyla@oulu.fi
- Dr. Mehran Safayani**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*
safayani@cc.iut.ac.ir
- Dr. Abdolreza Mirzaei**, *Department of Electrical and Computer Engineering, Isfahan University of Technology, Iran.*
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- Dr. Mehdi Jabalameli**, *Department of Computer, Islamic Azad University Najafabad Branch, Iran.*
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