KEYVAN   
MIR MOHAMMAD SADEGHI

*AI/SOFTWARE ENGINEER*

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*Profile*

Male, born 1988, married, have no children, currently residing at Tehran/Iran, status: Iranian national

My passion is AI -- more specifically, materialisation of thinking machines. I've mainly served in the capacity of technical lead and been responsible for replacing legacy systems/architectures with cutting (often bleeding) edge ones. I apply AI at scale, elevate businesses via creating added value by adopting machine intelligence. I've proven to be most effective providing the R&D function in an agile setting, where novel ideas are transformed to tangible results and delivered in a timely fashion. I've tried hard to bridge the gap between day-to-day affairs of startups/enterprises and *futuristic* AI software, with very little success. I've recently started blogging at [Medium](https://medium.com/@keyvan.sadeghi).

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| *Education* | University of Southampton, UK  MSc in Artificial Intelligence with Distiction, 2012 |

*Skills*

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| Software Architecture  Half a decade of first-hand experience on adopting cutting edge software paradigms. | Machine Learning  Applying ML to consumer-facing products. Played a role in the uprise of Tehran's top Big Data [startup](http://miras-tech.com/). | Open Source Contribution  Releasing most of the foundation of my work as OSS. [Contributions](https://github.com/keyvan-m-sadeghi) to others. |

*Technical*

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| Python | Big Data | Containers |
| JavaScript | Graph Database | Cloud |

*Experience*

Mahan Airlines

Software Engineer

2017-

Development of fleet assignment/planning operational software.

Convinced the management to publish underlying UI web components as OSS.

Helped with the establishment of Mahan's AI team.

MAPS Startup Studio

Technical Director

2015-2017

I joined "Miras Technologies International" who have 4 US patents in Big Data space, helped them with the product pivot right after the founder left. One of the top achievements was creation of a real-time predictive maintenance system on top of Apache Spark for analysing turbines for one a power station.

In my second year, I moved to Satratech (their E-Health startup) and helped with revamping the backend of the [Shafajoo platform](http://www.shafajoo.com/). Developed a Neo4j graph model for E-Health and created the [koa-neo4j framework](https://github.com/assister-ai/koa-neo4j) in the process.

My job involved regular meetings with MAPS' board, updating them on the current state of the 5 startups working there, bridging the vocabulary gap between technical and business people.

Azad University of Isfahan /   
Isfahan science and technology town

Lecturer / Startup Co-Founder

2014-2015

Teaching Foundations of AI to bachelor students.

Co-founded the "Cloud Computing Group" where we tried to offer IaaS and PaaS products to Iranian companies.

OpenCog ITF project /   
Novamente LLC

Project Associate / Freelance AI Developer

2012-2014

I joined OpenCog in the ITF project at their Hong Kong lab right after graduation. I [participated](https://github.com/opencog/opencog/graphs/contributors) in design and development of many sub-components of OpenCog. I continued working with Ben Goertzel on OpenCog as a contractor of Ben's company when I moved back to my home country. This collaboration has resulted in a number of publications.

*Publications*

FUZZ-IEEE

First Author

2014

Uncertain Interval Algebra via fuzzy/probabilistic modeling   
[Link](http://ieeexplore.ieee.org/document/6891863/)

IEEE Symposium on Computational   
Intelligence for Human-like Intelligence

Team Paper

2013

The CogPrime Architecture for Embodied Artificial General Intelligence   
[Link](http://ieeexplore.ieee.org/document/6613266/)

AGI

Team Paper

2012

Pattern Mining for General Intelligence: The FISHGRAM Algorithm for Frequent and Interesting Subhypergraph Mining   
[Link](https://link.springer.com/chapter/10.1007%2F978-3-642-35506-6_20)

AGI

Team Paper

2012

Syntax-Semantic Mapping for General Intelligence: Language Comprehension as Hypergraph Homomorphism, Language Generation as Constraint Satisfaction   
[Link](https://link.springer.com/chapter/10.1007%2F978-3-642-35506-6_17)

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