

# Reza. Nourmohammadi



## RESEARCH INTERESTS

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- Blockchain Technology
- Peer-to-Peer Networks
- Distributed Systems
- Machine Learning
- Cryptocurrency
- DataScience
- BigData
- Evolutionary algorithms(GA, PSO, ..)

## EDUCATION

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2019 - **PhD in Machine Learning application on Blockchain Technology Performance**, *ETS University, Canada.*

2011 - 2014 **M.Sc in Artificial Intelligence**, *K. N. Toosi University of Technology.*  
*GPA: 16.79 out of 20.*

2007 - 2011 **B.Sc in Computer Engineering (Hardware)**, *Shahed University of Technology.*  
*GPA: 16.32 out of 20.*

## THESIS

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Master *Design of Dynamic S-boxes Based on Chaotic Maps and Evolutionary Algorithms.*  
Advisor: Dr. Ali Ahmadi

Bachelor *Affine equivalence in the AES round function of Technology.*  
Advisor: Dr. Seyed Hamid Haj Seyed Javadi.

## EXPERIENCE

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### Working

2020 – Present **Business Analyst**, *Catallaxy, RCGT, Montreal, Canada.* (<https://catallaxy.rcgt.com/>)  
Business Analyst in Crypto-currency auditing and risk assessment development.

2019 – 2019 **CTO**, *Citex Co, Tehran, Iran .*  
Blockchain solutions development.

2019 – 2019 **Blockchain Consultant**, *Runc Co, Tehran, Iran .*  
Interbank settlement design.

2019 – 2019 **Blockchain Consultant**, *ITRC Tehran, Iran .*  
Blockchain applications investigation.

- 2017 – 2019 **R&D Team Leader**, *PulseWare Co, Tehran, Iran* .  
Cryptocurrencies and Blockchain Researcher.
- 2015 – 2017 **Development Team Leader**, *PulseWare Co, Tehran, Iran* .  
Responsible for managing the everyday business operations which are associated with BI such as analytics, reporting, information delivery, data preparations, data exploration, and data warehousing.
- 2013 – 2015 **Business Intelligence Developer**, *PulseWare Co, Tehran, Iran* .  
Develop and implement BI solutions.

## Teaching

- Fall 2010 **Teacher Assistant**, *Shahed university of Technology, Tehran, Iran*. Microprocessor

## Presentation

- 2018 **Blockchain Regulatory**, 1<sup>th</sup> *Cryptocurrency and Blockchain Regulatory, Tehran, Iran*.
- 2018 **Bitcoin De-anonymization**, *University of Tehran, Tehran, Iran*.  
*Introducing privacy and anonymity concepts, Describe how Bitcoin is anonymous and which methods used in its protocol and the techniques which are used to de-anonymize Bitcoin such as graph analysis and so on.*
- 2018 **Bitcoin Protocol**, *Iran Telecommunication Research Center, Tehran, Iran*.
- 2018 **Blockchain application in Micropayments**, *Sharif University of Technology, Tehran*.  
*Introducing micropayments requirements and instant payments, Describe about Bitcoin Lightning, Glance-Pay, W-Pay and other success stories.*
- 2018 **Blockchain Application in Banking Industry**, *Melli Bank of Iran, Tehran, Iran*.
- 2019 **Blockchain Application in Banking Industry**, *Iran Banking Institute, Tehran, Iran*.

## Research

- 2011 **Public Key Infrastructure of Smart Cards in Belgium**, *Matiran Co, Tehran, Iran*.
- 2014 **Investigation and Implementation of Genetic Algorithm Applications in Cryptography**, *K.N Toosi University, Tehran, Iran*.
- 2017 **Blockchain Applications in Micropayments**, *Iran Blockchain Labs, Tehran, Iran*.
- 2017 **Blockchain Applications in Banking**, *Iran Blockchain Labs, Tehran, Iran*.
- 2017 **Blockchain Regulatory Models**, *Pulseware Co, Tehran, Iran*.
- 2018 **Privacy and Performance Modeling of Blockchain**, *Pulseware Co, Tehran, Iran*.
- 2018 **Dynamic Blockchain Simulation**, *Pulseware Co, Tehran, Iran*.

- 2018            **Classification based Study on Blockchain Features**, *ITRC, Tehran, Iran.*
- 2018            **Blockchain Scalability Problems in UTXO-based DLTs**, *Pulseware Co, Tehran, Iran.*

## HONORS AND AWARDS

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- 2014            **Master of Science**  
Graduated with a Master's from K.N. Toosi University of Technology which is one of the best universities in Iran.
- 2017            **The First Place Winner**  
The 5<sup>th</sup> IT Managers National Conference (Iran).
- 2018            **Outstanding Paper, The First Place Winner**  
The First Cryptocurrencies and Blockchain Conference (Iran).
- 2019            **Outstanding Idea, Plan (Intelligent P2P Lending Platform based on Blockchain Technology)**  
The 8<sup>th</sup> annual conference on electronic banking and payment systems (Iran).
- 2019            **The First Place Winner, Plan (Intelligent P2P Lending Platform based on Blockchain Technology)**  
The Parsian bank of Iran.

- Certificated in Professional Scrum Master
- Certificated in ITIL V3 Foundation
- Member of Iranian Society of Cryptography
- Member of Iran Blockchain Labs

## PUBLICATIONS

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- Razavi. H, Jamali. M & **Nourmohammadi. R** (2014). Current framework payments fee in E-banking that leads to increased liquidity and inflation. *Journal of Asre Ertebatat*.
- Razavi. H, Jamali. M & **Nourmohammadi. R**. (2017). Estimating and calculating lost opportunities and penalties of failed issuer for a sample bank. Presented at the 4<sup>th</sup> *Electronic banking and payment* conference, Tehran, IR.
- Nourmohammadi. R**. (2018). Blockchain regulatory. Presented at the 1<sup>th</sup> *Cryptocurrencies and Blockchain regulatory* conference, Tehran, IR.
- Moezkarimi Z., **Nourmohammadi R.**, Zamani S., Abdollahei F., Golmirzaei Z., Arabsorkhi A. (2019) An Overview on Technical Characteristics of Blockchain Platforms. In: Grandinetti L., Mirtaheri S., Shahbazian R. (eds) *High-Performance Computing and Big Data Analysis. TopHPC 2019. Communications in Computer and Information Science*, vol 891. Springer.

## TECHNICAL SKILLS

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Programming Languages	C(Proficient), C++/VC++(Experienced) , C#(Proficient), Java(Experienced), ASP.NET(Proficient) , Verilog(Experienced) , MATLAB(Experienced)
Databases	SQL(Proficient), Oracle(Experienced), DB2(Experienced), PostgreSQL(Experienced), MongoDB(Experienced), ElasticSearch(Experienced)
Tools	Microsoft visual studio, Microsoft IIS, JIRA, SVN, IBM Mainframe(TSO, ISPF, JCL), IntelliJ Idea

## LANGUAGES

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Persian	Native
Turkish	Native
English	Fluent

## FURTHER INFORMATION

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Thanks for your time and consideration, Feel free to contact me if further information needed.

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