Mahdi Nejadgholi

□+1(438)XXX-XXXX | Source Street wice (approximately provide a street wice and the street wice and the street wice and the street with the st

Skills _____

Web3	Full Stack Development, Smart Contract Code Audit, Decentralized Governance Models	
Information Security	E-Voting protocols, zk-SNARKs, Sigma-protocols, Multi-party Computation.	
Software Development	Python, Solidity, Brownie, Truffle, ZoKrates, Django, J2EE, LAMP, NoSql, Bash.	
Applied Machine Learning	Deep Learning Software Testing, Generative Models, Convolutional Neural Networks.	

Experiences _____

Concordia University

Research Assistant, Web3 Code Auditor, Part-time

- Audited various Web3 ERC20 tokens code to find financial misstatement risks.
- Conducted an analysis of smart contract code for implementation efficiency.
- Developed a semantic search engine tailored for public Web3 smart contracts.

AgoraVote

FULL-STACK DEVELOPER

- Full stack development of e-voting software using ElectionGuard.
- Conducted market analysis of active electronic voting and Web3 governance projects.

CH3SS

Full-stack Web3 Developer

- Designed and developed an efficient Chess logic for Ethereum Virtual Machine.
- Full stack development of a Proof-of-Concept fully on-chain chess gameplay.

VoteXX

Developer & Research Assistant

- Designed and implemented Nullification protocol.
- Implemented VoteXX E-voting Crypto library.
- Developed a Systemization of Knowledge over E-voting academic literature using Topic Modeling and NLP techniques

HyperBlueCube Start-up

CO-FOUNDER AND R&D DIRECTOR

- Design and implementation of Customized BMS Devices.
- Conducted an extensive research over active attack vectors of IoT Wireless protocols.

Publications & Talks _____

VoteXX: A Solution to Improper Influence in Voter-Verifiable Elections	WWW
Cryptology ePrint Archive	2022
Introduction to Cryptocurrency	Vancouver, Canada
Presented at West Vancouver Memorial Library	2021
Short Paper: Ballot secrecy for liquid democracy	Grenada, US
6TH Workshop on Advances in Secure Electronic Voting	2021
A Study of Oracle Approximations in Testing Deep Learning Libraries	San Diego, US
34TH IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE)	2019

XXNetwork Mar 2020 - Nov 2022

Montreal, Canada

Montreal, Canada

Montreal, Canada

Nov 2021 - Present

Aug 2022 - present

Nov 2022 - Present

Tehran, Iran Oct 2014 - Mar 2018

Concordia University

MASTER OF APPLIED SCIENCE - INFORMATION SECURITY

Research Topics

• Research Topics

Coursera.org COURSE CERTIFICATES

Education

- Coercion-resistant E-Voting Protocols.
- Ballot Privacy in Liquid Democracy.

MASER OF SCIENCE - COMPUTER SCIENCE AND ENGINEERING

Amirkabir University of Technology (AUT)

BACHELOR OF SCIENCE – COMPUTER HARDWARE ENGINEERING

• Smart Contracts – Digital Certificate: LGLQKZA5U6K7

• Blockchain Basics – Digital Certificate: XVR9XUETH55H

• Machine Learning – Digital Certificate: UHAPK2K78WQU

Honors & Awards

- Deep Learning Frameworks' Test Suite Analysis.

Shahid Rajaee Teacher Training University (SRTTU)

- **Classification** based on Virtual Force Field Simulation.

- Deep Model **Transfer Learning** for Face Recognition.

- Courses
 - Foundations of Cryptography (Also T.A.)
 - Protocols and Network Security (Also T.A.)
 - Natural Language Analysis
 - Advanced Software Engineering Topics
 - Operating System Security
 - Software Measurement (Only T.A.)

Tehran, Iran 2013 - 2016

- Courses
 - Machine Learning
 - Neural Networks
 - Meta-heuristic algorithms
 - Computational Geometry

Tehran, Iran 2007 - 2012

World-Wide Web

Tehran, Iran

2016 - Present provided by University at Buffalo provided by University at Buffalo provided by Stanford University

2022	Programme Accélération grant, Centech	Montreal, Canada
2021	Cyber Security Summer School, "Online Voting" Certificate, University of Tartu	Tartu, Estonia
2019	Harriet and Abe Gold Award, Concordia University	Montreal, Canada
2010	1^{st} Prize Winner $, \ @$ Home Robocup League, AUTCup	Tehran, Iran
2009	Member of Technical Committee, 2^{nd} Linux Festival, Amirkabir University	Tehran, Iran
2008	Undergraduate Grant, Amirkabir University, Awarded to 1 st rankeds on 8 th Khwarizmi Youth Festival.	Tehran, Iran

1st Prize Winner, 8th Khwarizmi Youth Festival, a competition for Iranian teenagers with innovative ideas. Designed and 2007

implemented a frame to convert non-touchscreen to touchscreen displays, Iran Patent ID : 82/A/009058

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Montreal, Canada 2018 - 2022