Shayan **Hamidi Dehshali**

COMPUTER ENGINEERING · STUDENT

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Education

University of Tehran Tehran, Iran

BSc. IN COMPUTER ENGINEERING

2018 - Present

• GPA: 4/4

· Relevant Courses:

Artificial Intelligence(100/100) Operating systems(100/100) Computer Networks(88/100) Crypto Currencies (98/100) Database Design (100/100) Network Security (95/100) Distributed Systems (95/100) Software Testing (97/100) Advanced Programming (100/100)

> Tehran, Iran 2014 - 2018

Allame Helli Tehran

DIPLOMA IN MATHEMATICS AND PHYSICS

- GPA: 4/4
- An active participant of the Annual Helli Seminars
- A member of National Physics Olympiad team

Research Interests_

- Distributed Systems
- Operating Systems
- · Software Design

- Blockchain Technology and Cryptography
- IOT and Cyber-physical systems
- Network Security

Skills

Programming C/C++, Java, Python, C#, ™EX, ShellScript, Solidity, Kotlin, Erlang, Verilog, R, Go, HTML/CSS

Paradigms
Relational Database Systems, NoSQL Database Systems, xUnit-based Testing, BDD and UI Testing, Dependency Injection,

Git(Version Control), CI/CD, Scrum tools, Web-server, REST-API Design

Tools Jupyter Notebook, Android Studio, Remix, IntelliJ IDEA, ModelSim, Xilinx Vivado, Quartus

Operating Systems Ubuntu Linux, Kali Linux, Microsoft Windows

Research and Work Experience

Research assistant on Blockchain

University of Tehran, ECE

University of Tehran Data Lab

- Conducting research on the classification of bitcoin addresses and the limit on the throughput of the Lightning Network
- The research is being done under the supervision of Dr.B.Bahrak and Dr.P.Shariatpanahi

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Full stack developer

DATASERVICES, PART-TIME

Startup

Dec 2021 - Present

DATASERVICES, PART-TIME Oct 2020 - Dec 2021

• I have been part of a vanguard startup working on a data sharing platform. We took the privacy and GDPR to the heart of the design while incentivizing each individual's contribution favoring a platform embracing humanistic information economy.

Teaching Assistance Experience

Teaching assistant in Crypto Currencies

UNDER SUPERVISION OF DR.P.SHARIATPANAHI

University of Tehran

Feb. 2022 - July 2022

Teaching assistant in Operating Systems

UNDER SUPERVISION OF DR.KARGAHI

University of Tehran

Oct. 2021 - Dec. 2021

Teaching assistant in Compiler and Programming Languages Design

UNDER SUPERVISION OF DR.GHASEMI

University of Tehran

Oct. 2021 - Dec. 2021

Teaching assistant in Formal Languages and Automata

UNDER SUPERVISION OF DR.HOJJAT

University of Tehran

Jan. 2021 - Jun. 2021

Teaching assistant in Introduction to Computer Systems Programming

UNDER SUPERVISION OF DR. MORADI

University of Tehran
Oct. 2020 - Dec. 2021

Extracurricular Activity

- Lean Startup Workshop
- LTEX Workshop

- Scaled Agile Framework(SAFe) Workshop
- Design Thinking Workshop

Publications

Throughput Limitation of the Off-chain Payment Network[eprint]

Submitted-Under Review

Shayan Hamidi Dehshali, Seyed Mahdi Hosseini, Soheil Zibaksh Shabgahi, Behnam Bahrak

2022

In this paper, we propose a mathematical model to formulate limitation on the throughput of an off-chain payment network.

Honors & Awards

Ranked 13th in National Bachelor's Olympiad, among all Computer Engineering students of the country
 Ranked third in my major, among all Computer Engineering students of the university
 Ranked 108th in Iran National Konkur, top 0.01% nation-wide university entrance exam
 Qualified for second round of National Physics Olympiad, among all participants of the country
 Olympiad org.

Remarkable Academic Projects _____

EVM: Blockchain-Splitwise(on Github)

Crypto-currencies course

IMPLEMENTED A DEBT SYSTEM WITH SMART CONTRACTS BY SOLIDITY OVER GANACHE VIRTUAL ETHEREUM CHAIN SIMULATOR.

June 2021

CA-Crypto: Crypto-Currency Project(On Github)

I TRIED TO MINE BITCOIN BLOCK, GENERATE DIFFERENT KINDS OF ADDRESSES, AND MAKE P2PKH,P2SH,P2WPKH,SEGWIT TRANSACTIONS ALL ON THE TESTNET. IMPLEMENTED BY PYTHON.

Crypto-currencies course

May 2021

XV6: Operating System(On GitLab)

A MODIFICATION OF XV6 OPERATING SYSTEM WITH SO MANY FEATURES ADDED.

Operating Systems course

November 2020

Bluetooth ECG plotter(On Github)

PLOTTING ECG FROM EDGE SENSOR DATA ON A CENTRALIZED SYSTEM.. IMPLEMENTED ON Arduino.

May 2022

June 2022

CPS

Al: Image Classifier(On Github)

CLASSIFIED IMAGES OF PERSIAN NUMBERS BY A MANUALLY-IMPLEMENTED NEURAL NETWORK MODEL. DEVELOPED BY PYTHON.

Artificial Intelligence course

Languages _____

English Advanced - TOEFL: 106/120 [R:30, L:29, S:22, W:25]

German Elementary **Persian** Native

References_____

· Available upon request