

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)

Advanced Programming(100/100)

Software Testing(97/100)

Distributed Systems(95/100)

Allame Helli Tehran

Tehran, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS

2014 - 2018

• GPA: 4/4

• An active participant of the Annual Helli Seminars

• A member of National Physics Olympiad team

Research Interests

- Blockchain Technology and Cryptography
- Artificial Intelligence and Machine Learning
- Software Engineering

- Distributed Systems
- Network Security
- Cyber-physical systems

Skills

Programming

C/C++, Java, Python, C#, PHP, 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

Dec 2021 - Present

- Conducting a 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](#)

Full stack developer

Startup

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.

.NET Desktop Application developer

Remote

MOBTAKERAN PARS ANDISH, PART-TIME

March 2021 - Dec 2021

- My primary goal was to develop an application with user-friendly UI enabling interaction with the sensors, which use specific data transmission protocols. The sensors were also designed to measure the condition of engine(eg. temperature, pressure, torque).

Teaching Assistance Experience

Teaching assistant in Crypto Currencies

University of Tehran

UNDER SUPERVISION OF [DR.P.SHARIATPANAHI](#)

Feb. 2022 - July 2022

Teaching assistant in Operating Systems

University of Tehran

UNDER SUPERVISION OF [DR.KARGAHI](#)

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
- Scaled Agile Framework(SAFE) Workshop
- \LaTeX Workshop
- Design Thinking Workshop

Publications

Modeling expected throughput of the off-chain payment channels

Under Preparation

SHAYAN HAMIDI, SOHEIL ZIBAKHSH, MAHDI HOSSEINI, PROF.BEHRAN BAHRAN, PROF.POOYA SHARIATPANAHI

2022

In this paper we developed a mathematical model that proposes a formulated limitation on the throughput of the Lightning Network from the basic parameters of the network.

Honors & Awards

- | | | |
|------|---|-----------------------------|
| 2021 | Ranked 13th in National Bachelor's Olympiad , among all Computer Engineering students of the country | <i>Sanjesh org.</i> |
| 2022 | Ranked third in my major , among all Computer Engineering students of the university | <i>University of Tehran</i> |
| 2018 | Ranked 108th in Iran National Konkur , top 0.01% nation-wide university entrance exam | <i>Sanjesh org.</i> |
| 2017 | Qualified for second round of National Physics Olympiad , among all participants of the country | <i>Olympiad org.</i> |

Remarkable Academic Projects

CA-Crypto: Crypto-Currency Project([On Github](#))

Crypto-currencies course

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.

May 2021

AI: Image Classifier([On Github](#))

Artificial Intelligence course

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

June 2022

Film-Rental:HTTP([On Github](#))

Advanced Programming course

THIS IS A WEB-APPLICATION FOR FILM RENTERS AND FILM PRODUCERS BASED ON NETFLIX. IMPLEMENTED BY C++.

June 2019

XV6: Operating System([On GitLab](#))

Operating Systems course

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

November 2020

Languages

- | | |
|----------------|--|
| English | Advanced - TOEFL: 106/120 [R:30, L:29, S:22, W:25] |
| German | Elementary |
| Persian | Native |

References

- Available upon request