Shayan Hamidi Dehshali

COMPUTER ENGINEERING · STUDENT

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Education

University of Tehran Tehran, Iran

BSc. IN COMPUTER ENGINEERING

2018 - Present

• GPA: 3.84/4

· 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)

> 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 _

- 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#, \(\mathbb{H}_{\mathbb{E}}\times\), 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

Full stack developer Startup

DATASERVICES, PART-TIME

Oct 2020 - Dec 2021

Dec 2021 - Present

• 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. HOLIAT

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
- LTFX Workshop

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

Publications

Throughput Limitation of the Off-chain Payment Networks

Under Preparation

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

2021 **Ranked 13th in National Bachelor's Olympiad**, among all Computer Engineering students of the country

Sanjesh org.

2022 Ranked third in my major, among all Computer Engineering students of the university

University of Tehran

2018 Ranked 108th in Iran National Konkur, top 0.01% nation-wide university entrance exam

Sanjesh org.

2017 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

AI: Image Classifier(On Github)

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

Artificial Intelligence course

June 2022

Film-Rental: HTTP (On Github)

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

Advanced Programming course

June 2019

XV6: Operating System(on GitLab)

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

Operating Systems course

November 2020

Languages ____

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

German Elementary **Persian** Native

References _____

Available upon request