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Education

University of Tehran Tehran, Iran

B.S. IN COMPUTER ENGINEERING

2018 - Exp. 2022

• GPA of 95.4/100

 Relevant Courses: Crypto Currency(100/100) - Advanced Programming(100/100) - Data Structures(100/100) - Operating Systems(99/100)- Probability and Statistics(100/100) - Artificial Intelligence(98/100) - Database Design(99/100) - Algorithms Design(90/100)

Allame Helli Tehran Tehran, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS GPA: 96.6/100

2014 - 2018

• As a part of the National Organization for Development of Exceptional Talents (NODET)

Research Interests

- Blockchain technology
- Algorithm design
- Theoretic computer science
- Data analysis and Data mining

- Graphs and mathematics
- Operating systems and distributed systems
- Statistics process and optimization
- Artificial intelligence

Skills

Programming Python, C/C++, SQL, JAVA, Verilog, Solidity, Shellscript

Blockchain, Ethereum, Lightning Networks, ML, Git, Jupyter Notebook, Oracle, Makefile Technology

Operating Systems Linux(Ubuntu), Microsoft Windows

Experience ____

Research assistant on bitcoin lightning networks

University of Tehran Science and Technology Park

Jan. Apr 2021 - PRESENT

UNIVERSITY OF TEHRAN DATA LAB

- Conducting a research on the evaluation of Bitcoin Lightning Networks.
- The research is being done under the supervision of Dr.B.Bahrakand Dr.P.Shariatpanahi

Teaching assistant in Advanced Programming

UNDER SUPERVISION OF DR.R.KHOSRAVI

· Responsible with designing and implementing and grading projects and assignments and exams.

Teaching assistant in Database and systems

UNDER SUPERVISION OF DR.A. SHAKERY

• I am responsible with designing and grading homework assignments and helping students if needed

Teaching assistant in Engineering Probability and Statistics

UNDER SUPERVISION OF DR.B.BAHRAK

· I was responsible with designing and grading homework assignments and helping student if needed

Intern in Multi Media Lab

UNDER SUPERVISION OF DR. HASHEMI

Apex Developer and designer

• Tried to develop a test bench for testing video streaming using mininet.

• Developing and designing the system for load and unload using oracle apex.

University of Tehran

Jan. 2020 - PRESENT

University of Tehran 2021- PRESENT

University of Tehran

2020

University of Tehran

summer 2019

Shazand Petro Chemical

Jan 2020 - 2021

Publications

Modeling Effective Lifespan of Payment Channels

Not Published Yet

SOHEIL ZIBAKHSH, MAHDI HOSSEINI, PROF. BEHRAN BAHRAK, PROF. POOYA SHARIATPANAHI

Scalable Decentralized Systems: A Survey

Not Published

SOHEIL ZIBAKHSH

Honors & Awards

Ranked first at the University of Tehran, My current GPA is 95.4. In addition, I am the first rank in all 2018-2021

students

2017 **Silver medal**, Silver Medal in the 30th Iranian National Olympiad in physics.

2018 Ranked, Top 0.6% national-wide university entrance exam

2017 Becoming a member, becoming a member of Iran's National Elites Foundation(NODET)

Scholarship, Received scholarship from the University of Tehran Sponsors Foundation as an exceptional 2018

talent student.

Remarkable Academic Projects

Blockchain Splitwise (https://github.com/soheilzi/Blockchain-Splitwise)

A PROJECT ON DESIGNING AND IMPLEMENTING ETHEREUM SMART CONTRACTS.

Crypto Currency Course

Sophia Compiler(https://gitlab.com/soheilzi/compiler_p4/-/tree/master)

A COMPILER FOR NEW OBJECT ORIENTED LANGUAGE CALLED SOPHIA.

Compiler design Course

XV6 OS(https://gitlab.com/Shayunak/os-lab5)

MODIFIED SYSTEM CALLS, CPU SCHEDULING, MEMORY MANAGEMENT, SHORTCUTS, SYNCHRONIZATION AND CONCURRENCY..

Operating Systems Course 2020

Multithread Price Estimator (https://gitlab.com/soheilzi/os-project3)

USING MULTITHREADING TO SPEED UP ESTIMATOR IN C++.

Operating Systems Course

2020

Image Classifier (https://github.com/soheilzi/Image-classifier)

TWO PROJECTS ONE MAKING A NN GROUND UP, ONE USING TENSORFLOW.

Artificial Intelligence Course

Two Layer Switch Network (https://github.com/soheilzi/twolayer_switch_simulator)

IMPLEMENTING A SWITCH NETWORK WITH IPC AND MULTITHREAD PROGRAMMING.

Computer Networks Course

Dots and Boxes Over Localnet(https://gitlab.com/soheilzi/dots-and-boxes)

A SERVER THAT CREATES GAMES OF 2 TO 4 PLAYERS OVER LOCALHOST WITH UDP AND TCP.

Operating Systems Course

2020

Mips Pipeline Processor(https://gitlab.com/soheilzi/computerarchitecture_project4)

A PIPELINE PROCESSOR WAS FULLY DESIGNED AND IMPLEMENTED USING VERILOG.

Computer Architecture Course

Languages

Professional working proficiency - TOEFL: 113/120 [R:30, L:30, S:29, W:24]

Deutsch Beginner **Persian** native

References

Available upon request