Parsa Noori

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EDUCATION

Shahid Beheshti University   *2019 - 2023*
Bachelor of Science in Computer Engineering. GPA: 18.02/20
Department of Computer Engineering

Atomic Energy High-school   *2016 - 2019*
High School Diploma. GPA: 19.58/20
High school for mathematics and physics

INTERESTS

- Blockchain
- Cryptocurrencies
- Cryptography

RESEARCH AND PUBLICATION

Shahid Beheshti University   Tehran, Iran
Preserving Urban Traffic Data Privacy Using Blockchainbased Vehicular Ad-hoc Networks *Waiting for review*

· Efficient traffic management is crucial for urban quality of life. A blockchain-based system is proposed for Vehicular Ad-hoc Networks (VANETs) to enhance data integrity, trust, and privacy, using techniques like partially homomorphic encryption and Zero-Knowledge Proof (ZKP) to secure and validate vehicle-generated data. This system ensures secure storage and transfer of traffic data, reducing risks of fraudulent submissions.

TEACHING

Academic Teaching Assistance   **Shahid Beheshti University**

· CryptoCurrencies and Blockchain Instructor: Dr. Maedeh Mosharraf	September 2023 - June 2024 2 semesters
· Formal Languages and Automata Theory Instructor: Dr. Ramak Ghavvami Zadeh	January 2021 - June 2023 5 semesters
· Algorithms Design Instructor: Dr. Ramak Ghavvami Zadeh	January 2021 - Janurary 2023 4 semesters
· Computer Architecture Instructor: Dr. Dara Rahmati	January 2022 - June 2022 and September 2023 - Present 2 semesters
· Computer Architecture Instructor: Dr. Raziyeh Salari Fard	September 2022 - January 2023 1 semester
· Computer Architecture Instructor: Dr. Ali Jahanian	January 2023 - June 2023 1 semester
· Signal and Systems Instructor: Dr. Armin Salimi Badr	January 2023 - June 2023 1 semester
· Introduction to Programming Instructor: Dr. Sadegh Ali Akbary	January 2020 - June 2020 1 semester
· Discrete Math Instructor: Dr. Farshad Safaee	January 2020 - January 2021 2 semesters
· Advanced Programming Instructor: Dr. Mojtaba Vahidi	September 2020 - January 2021 1 semester
· Signal and Systems Instructor: Dr. Yaser Shekofte	September 2023 - Present 1 semester

Mentor-ship

· Been mentor in the cryptocurrencies boot camp held at Quera, the most popular website among programmers in Iran.

September 2023 - Present

WORK EXPERIENCE

Quera   **Tehran, Iran**
Blockchain track-owner of the Education department   *From Jun 2023*

· Been in charge of designing, managing and monitoring a blockchain online course containing the fundamentals and the Solidity language.
· Been in charge of designing and writing an offline Solidity course.

Noursun Energy   **Tehran, Iran**
Blockchain developer at Energy market development section   *From Jun 2023*

· Been one of the core developers of Energy market research team, guided by my professor Dr Mosharraf.
· Embraced my skills in Solidity development and also developing elements of cryptocurrencies.

PROJECTS

PCoin   [Github Link]

· A bitcoin like proof-of-work cryptocurrency for learning purposes. Made from scratch and involves threading and socket programming.

RSA Codesign   [Github Link]

· An implementation of RSA algorithm using the Gezel on hardware to accelerate the computation.

FFT Codesign   [Github Link]

· An implementation of the Fast Fouriers Transform algorithm using the Gezel on hardware to accelerate the computation.

Decaf Compiler   [Github Link]

· Implementation of the Decaf langauge's compiler from scratch. No use of LLVM or other high level languages. Codegens directly generated MIPS instructions.

REMARKABLE SCORES

Undergraduate   Shahid Beheshti University

Course	Out of 20
· Foundations of Cryptocurrencies	20
· Advanced Programming	17.03
· Principles of Algorithms	20
· Theory of Machines & Languages	17.1
· Discrete Mathematics	17.1
· Calculus I	20
· Differential Equations	19.5
· Signals & Systems	20

HONORS AND AWARDS

ACM-ICPC-Sharif
Tehran Regional contest
Team ranked 45th among
200 teams
September 2020

Physics Olympiad
Was accepted in the first
stage for two times
December 2017
December 2016

Math Olympiad
Was accepted in the first stage.
December 2016

University Entrance Exam
Ranked 628 among more
than 164 thousand
participants
June 2019

SKILLS

Programming Skills:
Python, Solidity, C++, Java, Solidity, LaTeX,
Verilog/SystemVerilog, VHDL

Languages:
Persian (Native) - English (Fluent) IELTS 7/9
Speaking: 7.5/9 - Writing: 6.5/9 - Reading: 6/9 - Listening: 8/9