

EDUCATION

University of Alberta

MSc. in Computer and Electrical Engineering, Blockchains
– Working on zero knowledge protocols and algorithms.

Edmonton, Canada

2023–PRESENT

Sharif University of Technology

B. Sc. in Electrical Engineering, Communication Systems
– GPA: 18.40/20 (3.88/4.00)
– Ranked 14 among 165 students.

Tehran, Iran

2019–2023

RESEARCH EXPERIENCE

University of Alberta

MSc Thesis

Canada

Winter 2023–PRESENT

- Security and Privacy in Blockchain Networks:
- Currently working on Range Proofs and other ZKPs algorithms related to hashcashes, under the supervision of Prof. Khabbazi.

Hamrah Avval R&D Group

Research Assistant

The largest mobile operator in Iran

Summer 2022

- 5G Synchronization:
- Became familiar with NR-TDD and synchronization and worked on a project on PTP (Precision Time Protocol) using IPCLK3000 clock server on the real R&D core under the supervision of Dr. Ravenshidi.
- Sites Load Simulation:
- Generating real traffic model using SUMO and OpenStreetMap to feed it to SD-RAN network simulator and monitor loads by Grafana.
- Indoor Localization Based Services
- By using multiple access points in the indoor environment providing LBS similar to Google Maps for indoor applications (Museums, Malls or Hospitals).

Sharif University of Technology

Bachelor's Thesis

Tehran

Fall 2022–PRESENT

- Data Communication in Metaverse:
- Securing users data in metaverse by decentralized storage (Blockchain) and using federated learning as a distributed algorithm to update models in metaverse (BlockFL) under the supervision of Prof. Khalaj

SKILLS

- **Documentation:** \LaTeX , Markdown
- **Operating Systems:** Linux(ubuntu, centOS), MacOS
- **Programming Languages:** Python, Matlab, Java, C/C++, Git
- **Network Tools/Frameworks:** OpenVSwitch, Mininet, OpenDaylight, NS3, GNS3