

# Tahera Fahimi

COMPUTER SCIENCE STUDENT

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## Work Experience

### Research & Teaching Assistant - UoC

Jan2022 - Present - Calgary, Canada

- Providing contents for students to help them understanding concepts
- Design exams and projects and correcting them
- Providing extra examples in the tutorial classes

### Junior of AI Engineer - PART SOFTWARE CO.

May2021 - Dec2021 - Tehran, Iran

- Design and develop a scalable tool to correct Persian misspelling error(detection and correction).
- Map gathered data into suitable data structure based on the needing.
- Train a Bert Base model for text to speech task(grapheme to phoneme).

### Malware Analyzer - AMNPARDAZ CO.

Jul2020 - May2021 - Tehran, Iran

- Generating disinfector for different viruses.
- Tracking network traffic anomaly.
- Working with various categories of malware like: viruses, trojan, ransomware and etc.
- Using reverse engineering in order to analyze a malware, and generate its signature.

### Python Programming Language Tutor - TUTOR DOCTOR

May2022 - Present - Calgary, Canada

- Private Python course for high school students with no background in programming languages.

### Research Assistant - AUT

Jun2020 - Tehran, Iran

- Design and analyze a Secure authentication system based on biometric features.

### Teacher Assistant - AUT

Sep2019 - July2021 - Tehran, Iran

- Teaching experience in information security, computer networks, fundamentals of artificial intelligence, cloud computing.

## Education

### University of Calgary (UoC) - MASTERS OF COMPUTER SCIENCE

Jan 2022 - Present - Calgary, Canada

- Working on security lab with focus on Secure Communication and Blockchain
- Focusing on Blockchain applications, provable security

### Amirkabir University of Technology (AUT) - B.S. IN COMPUTER SCIENCE

Sep 2017 - Aug 2021 - Tehran, Iran

- Main Major was Networking and Artificial Intelligence
- GPA 4/4
- BSc Main Project Course:
  - Design and implementation of web application analysis software to detect Cross-Site Scripting and injection vulnerabilities
  - Grade : 20/20
- Courses: Data structure and Algorithms, Cloud Computing ( experience in HDFS(Hadoop Distributed File System) and Apache Spark), Data Mining and Machine Learning (Also Experience in Deep learning), CEH( certificate ethical hacking)

## Skills

<b>Programming Languages</b>	Python (experienced in Scikit-Learn, TensorFlow, Pandas, NumPy, PyTorch), Java, C, JavaScript, LaTeX.
<b>OS and Kernel Programming</b>	Linux (Kali, Debian, Ubuntu server), XV6, Windows.
<b>Virtualization and Distributed Systems</b>	VirtualBox, KVM, Hadoop Distributed System(HDFS), Spark.
<b>Security</b>	Cryptography, CEH(Certified Ethical Hacker)
<b>Reverse Engineering Tools</b>	OllyDbg, IDA-Pro, CFF Explorer, API Monitor, PEiD, Process Monitor.
<b>Network Simulation Tools</b>	Cisco Packet Tracer, Wireshark, Boson NetSim.
<b>Software Development</b>	Git, UML, MySQL.
<b>Web Application Development</b>	ReactJs, HTML, CSS, JavaScript.
<b>IDE</b>	PyCharm, Visual Studio Code, IntelliJ.

## Language

**English :** Proficient

**Farsi and Dari :** Mother tongue

## Honors & Awards

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2021	Achieve a <b>fully-funded</b> scholarship for a master's degree in security at the UoC.	Calgary, Canada
2020	<b>Ranked</b> Within the <b>Top 5%</b> of Class 2021 in Computer Engineering Department with a CGPA of 18.43/20, AUT.	Tehran, Iran
2017	<b>Full Tuition Waiver</b> Scholarship from AUT.	Tehran, Iran
2017	Achieved the <b>Top 0.2%</b> Place Among All Applicants in the Iranian University Entrance Exam (nearly 140000 applicants).	Tehran, Iran
2016	Graduated as the best student of the High School with a GPA of 19.73 (out of 20).	Tehran, Iran

## Talks & Presentations

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2022	<b>Blockchain Technology Symposium 2022</b> The Blockchain Technology Symposium (BTS), held annually in Canada, is a forum where academic researchers, industry professionals, and decision makers come together to present recent advancements, discuss adoption barriers, tackle common challenges, and explore future roadmaps surrounding blockchain and its related technologies such as consensus algorithms, smart contracts, cryptocurrencies, and distributed ledger technologies. The aim is to bring these communities closer to address the challenges and seize the opportunities brought forward by this promising technology.	Calgary, Canada
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## Projects

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### Penetration Test in Kali Linux

- Checking vulnerability of windows XP with Metasploit in Kali.

### Hadoop Distributed File System (HDFS)

- Running multiple virtual machines and HDFS on top of them, then use yarn as manager for map-reduce programs.

### Face Recognition

- Implementation of face recognition in python using Linear Algebra

### Natural Language Processing

- Clustering texts based on Bigram and Unigram

### Multi-layer Perceptron Network

- Implementing Multilayer Perceptron Neural Network in Python to clustering coordinates.
- Learning the Network with train data and finding the best answer in the test data.

### XV6 kernel manipulation

- Changing clock and adding other features to XV6 kernel

### Simple Clinic Website

- A simple clinic website in Persian language, written with ReactJs and Python