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EDUCATION

B.Sc. in Computer Science

University of Mohaghegh Ardabili¹ (UMA), Ardabil, Iran | September 2018 – December 2021 (Expected)

- Last Year GPA: 3.8/4 | Current Overall GPA: 3.6/4 (Ranked in top 6% among all major undergraduate students)
- Received full scholarship from Faculty of Science - Tuition Waiver
- Supervisor: Prof. M.R. Hooshmandasl

Diploma in Mathematical Sciences

Ayatollah Malakouti Elite High School, East Azerbaijan, Iran | September 2014 – June 2018

- Pre-University GPA: 3.7/4 – A
- Head of the Student's Academic Association in School (2016 - 2018)

RESEARCH INTERESTS

Information Technology: Applied Cryptography, IoT & Security Architecture

Theory of Computation: Computational Complexity, Post-Turing Machine, Pseudorandomness

PUBLICATIONS

- N. Abapour, S. Jamali | "Paradigmatic Review on Centralized Applications of White-box Cryptography with the Resilience and Protection Approaches" | 2021 [In Prep.]
- M. Soleymani, N. Abapour, E. Taghizadeh, S. Siadat, R. Karkehabadi | "Fuzzy Rule-Based Trust Management Model for the Security of Cloud Computing" | Journal of Mathematical Problems in Engineering, 2021 (ISI-JCR:Q2) [PDF] [Access Page]
- N. Abapour, P. Ghane, A. Shafiesabet, R. Mahboub | "A Novel Security Based Routing Method Using Ant Colony Optimization Algorithms and RPL Protocol in the IoT Networks" | Mapta Journal of Electrical and Computer Engineering (MJECE), 2021 [PDF] [Access Page]
- N. Abapour. "4000 Essential Words". 30 Short Stories for Iranian English-language Learners. Edited by A. Asgharpour, A. Gholampour, Soltani Publisher, 2017, pp. 121-140. [PDF] [National Library of Iran Verification]

CONFERENCE PAPERS/PRESENTATIONS

- S. Jamali, N. Abapour, R. Mahboub | "Improving Information Security in the IoT Networks by Utilizing the Chain Algorithm" | 1st Conference on Engineering & Innovation 2021, University of Tabriz, Tabriz-Iran [Certificate]
- N. Abapour, R. Mahboub | "An Authentication Evaluation Review in Cloud Computing with Quantum and Classical Cryptography" | 3rd Conference on Mechanical, Electrical and Computer Engineering 2021, Valencia-Spain [Certificate]
- N. Abapour, R. Mahboub | "OEA: A Novel Symmetric Cryptography Method Based on Parity Attribute" | 7th Conference on Innovation and Research in Engineering Sciences 2020, Tbilisi-Georgia (ICIRES) [Certificate]

CERTIFICATIONS & LICENSES

Innovation Practice of IoT (Issued 2021)
Shanghai Jiao Tong University², Shanghai, China

Advanced Information Security (Issued 2021)
The Open University, United Kingdom

Information Security Architecture (Issued 2020)
(International Accreditation Forum) eQual Assurance, Australia

Network Security Engineering (May, 2021)
Huawei Technologies Ltd., Shenzhen, China

Engineering & Innovation (Issued 2021)
Nordic Science Centre Association, Denmark

Web Development (Issued 2019)
Oxford Cert, United Kingdom

1. TIMES 2021 Ranking: 155th among young universities in the world - 401-660th impact in the world – 3rd among comprehensive universities in Iran
2. QS 2021 Ranking: 47th in the world

HONORS & AWARDS

- Praised by **Ministry of Science, Research and Technology** for co-founding in establishing the 1st student computer science audio journal in Iran (R.A.M.A) and awarded \$6200 budget in order to develop this journal.
- The **Youngest** scientific secretary of the 12th **National Festival of Student Media and Publications Secretariat** in Iran, and appointed by Ministry of Science, Research and Technology's Scientific Associations Office and University of Mohaghegh Ardabili.
- Appreciated by **Ministry of Health and Medical Education and Islamic Culture and Communication Organization** for achieving the top rank among all journals at the **12-Titr Festival** national competition.
- Known as **Youngest** Teaching Assistant in Department of Computer Science, and Research Assistant in Department of Electrical and Computer Engineering at University of Mohaghegh Ardabili.
- Participated as a team named Cool Name Pending at the University of Mohaghegh Ardabili's Computer Engineering Scientific Association provincial competitive programming tournament, known as **CCM 2019 (Code Cup of Mohaghegh)** and ranked 1st.
- Participated as a team named "Elite" at the **Sharif University of Technology 2019 Artificial Intelligence Challenge**, and ranked 1st among University of Mohaghegh Ardabili's teams, and ranked 7th at first group. (Total teams numbers: 964)
- Announced as the **Outstanding Student** and Achieved 1st place among both Statistics and Computer Science 2018-entries (More than 80 students) in **Advanced Programming and Mathematical Analysis**, and Achieved 1st place among Computer Science 2018-entries in **Foundation of Algebra, Theory of Computation, and Architecture of Computer Systems** courses.
- Ranked 1st among more than 150 students at the Provincial (East Azerbaijan Province) **Competition of Quran & Nahj al-Balagha**, known as **Quran & Etrat 2018 (Islamic Sciences/Studies)**, which held by Ministry of Education and Iranian National Nahj al-Balagha Foundation in Islamic Republic of Iran.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM) - Student Member, April 2021-Present

Headquarter: 1601 Broadway, Times Square, New York City, United State of America

- Head of Association: Prof. Gabriele Kotsis

Iranian Society of Cryptology (ISCISC) - Student Member, February 2021-Present

Headquarter: Electrical Engineering Department, Sharif University of Technology, Azadi Avenue, Tehran, Iran

- Founder: Prof. M.R. Aref
- Head of Society: Dr. Mahmoud Salmasizadeh

Scientific-Student Journals Supervisory Committee - Fellow, October, 2020-Present

Headquarter: Cultural Affairs Office, University of Mohaghegh Ardabili, Daneshgah Street, Ardabil, Iran

- The first undergraduate member of committee in the history of UMA.
- Head of Committee: Dr. Mearaj Sharari
- Consultant: Dr. Ali Roshanianfard

Scientific-Student Association of Computer Science - Chairman, September, 2020-Present

Headquarter: Faculty of Science, University of Mohaghegh Ardabili, Daneshgah Street, Ardabil, Iran

- Association's Head (Faculty of Science): Dr. Jafar Borhanian
- Consultant: Dr. Mohammad Bagher Moghimi

EXTRA COURSES & WORKSHOPS

Engineering & Innovation (Course)

Science Nordic Institute, Denmark - 2021

- Lecturers: Prof. Nader Engheta, Prof. Iraj Ershaghi, Prof. Mehdi Bahadori

Information Security and Cryptology (Course)

Iranian Society of Cryptology Winter School, Iran - 2021

- Lecturers: Prof. Joan Daemen, Prof. Elisabeth Oswald, Prof. Chris Brzuska, Dr. Billy Bob Brumley

Cyber & Digital Journalism (Workshop)

University of Shiraz ¹, Iran – 2020

TOEFL (Course)

Modiran Academy, Iran - 2018

SKILLS

Languages: English (Proficient-IELTS exam will be taken soon), Azerbaijani (Native), Persian (Proficient), Turkish (Proficient), Arabic (Intermediate), Spanish (Beginner)

Programming Languages: C++ (Expert), JavaScript (Expert), C (Professional), Bash Script (Professional), MATLAB (Intermediate), C# (Familiar), Python (Familiar), Java (Familiar), Pascal (Familiar), UML (Familiar)

Cyber Security: Penetration Testing (Professional), Network Security Design (Intermediate)

Softwares: Adobe After Effects (Professional), L^AT_EX (Professional), Git (Professional), Adobe Premiere Pro (Professional), Autodesk 3ds Max (Familiar), Unity 5 (Familiar), Unreal Engine 4 (Familiar), Proteus Design Suite (Familiar), JFLAP (Familiar)

Back-End Development: Node.js (Expert), ASP.NET (Familiar)

Android/IOS Development: React Native (Professional)

Front-End Development: XHTML (Expert), CSS (Expert), Bootstrap (Expert), XML (Professional), Vue.js (Professional), jQuery (Professional), S.E.O (Professional), FlexBox (Familiar), React.js (Familiar)

OS: Microsoft Windows (*XP, 7, 8, 10*) (Expert), Linux (*BlackArch, Kali Linux, Scientific Linux, Solus*) (Professional), macOS (*19H524, 20D91*) (Familiar)

Database Systems: MongoDB (Professional), Microsoft SQL Server (Familiar)

MISCELLANEOUS PROJECTS

SCLOS: Secure Command-Line-based Operating System with Monolithic Kernel – In Progress

R. Mahboub, N. Abapour | Technologies: C, Microsoft Visual Studio, .NET, C#, High Level Assembly (X#)

Cryptography Module for Using Common Symmetric Techniques - In Progress

N. Abapour | Technologies: Python, Pyblas (Basic Linear Algebra Subprograms), Spyder

Implementing a PCA-based Visualization Method for Iris, Seeds and Abalone Data Sets – 2021

N. Abapour | Technologies: MATLAB, Microsoft Excel, Visual Studio Code

Designing Prototype of a Flexible Data Storing/Transferring Protection Algorithm Based on Kerckhoffs's Principles Called OEA (Odd-Even Algorithm) – 2020

R. Mahboub, N. Abapour | Technologies: GNU Compiler Collection, C++, Code Blocks, Dev-C++

Image Recognition Application Based-on Anatomy Analyze and Optimized M.L. Kit – 2019

R. Mahboub, N. Abapour | Technologies: XML, Java, Machine Learning kit, Android Studio

SELECTED COURSES & GRADES

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|---|---|
| <ul style="list-style-type: none">• Logic and Set Theory: 4/4 (A)• Theory of Computation: 4/4 (A)• Data Mining: 4/4 (A)• Theory of Languages & Machines: 4/4 (A)• Algorithm Design & Analysis: 4/4 (A)• Topics in Theoretical Computer Science: 4/4 (A)• Computer Networking: 4/4 (A)
Lecturer: Prof. M.R. Hooshmandasl | <ul style="list-style-type: none">• Foundation of Probability & Statistics: 3.5/4 (B+)
Lecturer: Prof. Masoud Ganji |
| <ul style="list-style-type: none">• Foundation of Algebra: 4/4 (A+)
Lecturer: Prof. Naser Zamani | <ul style="list-style-type: none">• Differential Equations: 4/4 (A)
Lecturer: Dr. Nasrin Eghbali |
| <ul style="list-style-type: none">• Mathematical Engineering: 4/4 (A)• Linear Programming & Optimization: 4/4 (A)
Lecturer: Prof. Abdollah Borhanifar | <ul style="list-style-type: none">• Database: 4/4 (A+)• Principles of Software Development: 4/4 (A)
Lecturer: Dr. Samad Najjar-Ghabel |
| | <ul style="list-style-type: none">• Advanced Programming: 4/4 (A+)• Architecture of Computer Systems: 4/4 (A+)• Principles of Operating Systems: 4/4 (A)
Lecturer: Mr. Danial Mirizadeh |

EXPERIENCES

Content Creator (June 2021 – Present)

Sharif University of Technology (QS 2022: 1st in Iran, 381th in the World), Tehran Province

- Scientific team member and content creator in the field of Applied Cryptography at the Iranian Society of Cryptology at Sharif University of Technology's student branch. (Scientific Secretary: [Dr. Taraneh Eghlidos](#))

Teaching Assistant (October 2020 - Present)

Department of Computer Science, University of Mohaghegh Ardabili, Ardabil

- Lecturer in Charge: Prof. M.R. Hooshmandasl
- Courses: Data Structure & Algorithms (Fall 2020), Data Mining (Spring 2021)

Junior Research Assistant (August 2020 – June 2021)

C.E.R.T, Department of Electrical & Computer Engineering, University of Mohaghegh Ardabili, Ardabil

- Principal Investigator: Prof. Shahram Jamali
- Laboratory: APA Center of Ardabil University Researcher (Computer Emergency Response Team)

Chief Editor (March 2019 – Present)

Department of Computer Science, University of Mohaghegh Ardabili

- Publication headmaster of 1st national computer science audio journal in Iran known as R.A.M.A. with the concession of the Computer Science's Student-Scientific Association. (Official Website: [ramacs.ir](#))
- Scientific Supervisor: Dr. Mohammad Bagher Moghimi

Technical Team Head (November 2018 – January 2019)

University of Mohaghegh Ardabili, Ardabil

- Head of technical team of sixth provincial competitive programming tournament for simulating ICPC competition that hosted by University of Mohaghegh Ardabili's Scientific Association of Computer Science.

Senior Consultant (September 2018 – February 2021)

Barnamenevisan Company, Tehran & Isfahan Provinces

- CEO and Manager: Iman Madaeny, Microsoft Certified Trainer – Microsoft Certified Solutions Associate
- Provided Full-Stack development based solutions for web-applications and software security issues

Lead Instructor (April 2018 – August 2021)

Toplearn (Academy), Tehran Province

- Taught Courses: Web Application Development, Principles of Information Security, Server-Side Security in Node.js, Foundations of Programming & Algorithm, Bash Scripting in Linux, Introduction to S.E.O.
- Overview: More than 6400 students along with 96% satisfaction with the quality and quantity of taught courses.
- Teaching Profile: [Toplearn.com/Masters/NavidAbapour](#)

REFERENCES

- **Mohammad Reza Hooshmandasl**, Professor [[E-mail: hooshmandasl@uma.ac.ir](mailto:hooshmandasl@uma.ac.ir)]  
Department of Computer Science, University of Mohaghegh Ardabili
- **Shahram Jamali**, Professor [[E-mail: jamali@uma.ac.ir](mailto:jamali@uma.ac.ir)]  
Department of Electrical and Computer Engineering, University of Mohaghegh Ardabili
- **Abdollah Borhanifar**, Professor [[E-mail: borhani@uma.ac.ir](mailto:borhani@uma.ac.ir)]  
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