





# NAVID ABAPOUR

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## EDUCATION

### B.Sc. in Computer Science

University of Mohaghegh Ardabili<sup>1</sup> (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
- Advisor: 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 Scientific 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 (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" | 1<sup>st</sup> 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" | 3<sup>rd</sup> 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" | 7<sup>th</sup> Conference on Innovation and Research in Engineering Sciences 2020, Tbilisi-Georgia (ICIRES) [Certificate]

## CERTIFICATIONS & LICENSES

**Innovation Practice of IoT** (Issued 2021)  
Shanghai Jiao Tong University<sup>2</sup>, 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: 155<sup>th</sup> among young universities in the world - 401-660<sup>th</sup> impact in the world – 3<sup>rd</sup> among comprehensive universities in Iran  
2. QS 2021 Ranking: 47<sup>th</sup> in the world

## HONORS & AWARDS

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- Praised by **Ministry of Science, Research and Technology** for co-founding in establishing the 1<sup>st</sup> 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 12<sup>th</sup> **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 1<sup>st</sup>.
- Participated as a team named "Elite" at the **Sharif University of Technology 2019 Artificial Intelligence Challenge**, and ranked 1<sup>st</sup> among University of Mohaghegh Ardabili's teams, and ranked 7<sup>th</sup> at first group. (Total teams numbers: 964)
- Announced as the **Outstanding Student** and Achieved 1<sup>st</sup> place among both Statistics and Computer Science 2018-entries (More than 80 students) in **Advanced Programming** and **Mathematical Analysis**, and Achieved 1<sup>st</sup> place among Computer Science 2018-entries in **Foundation of Algebra**, **Theory of Computation**, and **Architecture of Computer Systems** courses.
- Ranked 1<sup>st</sup> 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

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**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

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**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 <sup>1</sup>, Iran – 2020

**TOEFL (Course)**

Modiran Academy, Iran - 2018

## SKILLS

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**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)

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

**Softwares:** Adobe After Effects (Professional), L<sup>A</sup>T<sub>E</sub>X (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

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

## EXPERIENCES

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### Content Creator (June 2021 – Present)

*Sharif University of Technology (QS 2022: 1<sup>st</sup> in Iran, 381<sup>th</sup> 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 – Present)

*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 1<sup>st</sup> 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 2019 – January 2020)

*University of Mohaghegh Ardabili, Ardabil*

- Head of technical team of six<sup>th</sup> 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

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- **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)]    
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- **Abdollah Borhanifar**, Professor [[E-mail: borhani@uma.ac.ir](mailto:borhani@uma.ac.ir)]    
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