

# Hossein Abdi Nasib Far

SECURITY RESEARCHER · LECTURER

No. 20, Shahid Fahlegari Alley, Sayyed Ahmed Khomeini Town, Asadabad, Hamadan, Iran

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## Education

### Shahed University

MASTER OF SCIENCE IN SECURE COMPUTING

Tehran, Iran

Sep. 2017 – June 2019

- GPA: 17.96/20.0
- Thesis Title: lightweight anonymous privacy-preserving three-factor authentication scheme for WSN-based IIoT
- Advisors: Dr. Majid Bayat, Dr. Mohammadali Doostari

### Sayyed Jamaledin Asadabadi University

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (SOFTWARE)

Hamadan, Iran

Sep. 2012 – Feb 2016

- GPA: 17.05/20.0
- Thesis Title: Developing Android Applications: A review on the android operating system and its application development architectures

### National Elites School (Pajouhesh High School)

DIPLOMA, MATHEMATICS AND PHYSICS

Hamadan, Iran

Sep. 2008 – Jun 2012

- National Org. for Development of Exceptional Talents

## Research Interests

- Computer and Network Security
- Internet of Things
- Blockchain
- AI Security and Privacy
- Applied Cryptography
- Authentication Protocols
- Android Security and Privacy

## Publications

- Far, Hossein Abdi Nasib, Majid Bayat, Ashok Kumar Das, Mahdi Fotouhi, S. Morteza Pournaghi, and Mohammad-Ali Doostari. "LAPTAS: lightweight anonymous privacy-preserving three-factor authentication scheme for WSN-based IIoT." *Wireless Networks* 27, no. 2 (2021): 1389-1412.
- Fotouhi, Mahdi, Majid Bayat, Ashok Kumar Das, Hossein Abdi Nasib Far, S. Morteza Pournaghi, and Mohammad-Ali Doostari. "A lightweight and secure two-factor authentication scheme for wireless body area networks in health-care IoT." *Computer Networks* 177 (2020): 107333.

## Honors & Awards

- |      |   |               |
|------|---|---------------|
| 2020 | <b>Researcher and Lecturer</b> , Has been selected for this position by the Iranian Ministry of Science, Research, and Technology (MSRT) as a talented graduate student to complete the Iranian conscription. ( <i>which is mandatory for all men in Iran and it takes two years.</i> )   | Iran          |
| 2019 | <b>PhD's Position with Full Tuition Scholarships</b> , Eligible for applying to continue education in the PhD's Program at the Department of Computer Engineering without taking the "National Entrance Exam for Graduate Schools", as a reward of having total GPA over 17 out of 20.  | Tehran, Iran  |
| 2019 | <b>Ranked 2st</b> , among all of SC96 students of Shahed University   | Tehran, Iran  |
| 2017 | <b>Full Tuition Scholarships</b> , received a full-tuition scholarship for master degree from shahed university   | Tehran, Iran  |
| 2017 | <b>Ranked Top 0.7% (192<sup>th</sup>)</b> , National Entrance Exam for Graduate Schools among 25000 Iranian Students in Computer Engineering  | Iran          |
| 2016 | <b>Ranked 1st</b> , among all of CS91 students of Sayyed Jamaledin Asadabadi University   | Hamadan, Iran |
| 2014 | <b>Ranked 1st</b> , in the programming contest at Sayyed Jamaledin Asadabadi University   | Hamadan, Iran |
|      | <b>Ranked Top 2%</b> , in the National Entrance Exam among 284000 Iranian Students in Mathematics and Physics. <i>Taking this exam is the only way for getting admitted to the public universities in Iran (which are much more prestigious than private universities such as Azad university). Iran has population of 80 millions.</i> | Iran          |
| 2011 | <b>Ranked Top 15</b> , in Khwarizmi Robotic Competition among 200 student teams across the country  | Tehran, Iran  |

## Research Experience

### Blockchain Technologies for Internet of healthcare

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Data for a review article has been prepared, in the writing state

Hamadan, Iran

2022

### Lightweight WSNs Authentication Protocols for Internet of Things (Master's thesis)

SHAHED UNIVERSITY

- Published in Wireless Networks Journal, 2021

Tehran, Iran

2018-2020

### Lightweight Authentication Protocols for WBAN in health-care IoT

SHAHED UNIVERSITY

- Published in Computer Networks Journal, 2020

Tehran, Iran

2018-2020

## Teaching Experience

### Lecturer

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Computer and Network Security

Hamadan, Iran

Fall 2021

### Lecturer

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Operation Systems
- Advanced Programming

Hamadan, Iran

Summer 2021

### Lecturer

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Operation System + Lab

Hamadan, Iran

Spring 2021

### Teaching Assistant

SHAHED UNIVERSITY

- Security Protocols, Under the supervision of Dr. Mohammadali doostari

Tehran, Iran

Spring 2020

### Teaching Assistant

SHAHED UNIVERSITY

- Cryptography, Under the supervision of Dr. Mohammadali doostari

Tehran, Iran

Fall 2019

### Lecturer

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Database Lab

Hamadan, Iran

Fall 2015

### Teaching Assistant

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Microprocessor Lab

Hamadan, Iran

Spring 2014

### Teaching Assistant

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Advanced Programming

Hamadan, Iran

Fall 2013

## Work Experience

### Cyber Security Specialist, Network and Datacenter Administrator

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

- Monitored, Managed, and Made responses to cyber security threats
- Managed more than 20 virtual machines and network services

Hamadan, Iran

Jun 2020 – June 2022

### Android Developer and Android Security Specialist

MSG Co.

- Improved the performance and security of 3 android applications

Tehran, Iran

Feb 2018 - Apr 2019

### Android Developer

FREELANCER

- Designed and Developed more than 5 android applications for different businesses and companies

Iran

Mar 2015 - Feb 2018

## Web Developer

FREELANCER

Iran

Mar 2014 - Feb 2015

- Designed and Developed more than 3 websites for different businesses and companies

## Skills

### Leadership

Team Leading, Project Management

### Programming

**Proficient:** C, C++, PHP, SQL, Bash Script, Java, Golang

**Experienced:** Assembly, Python, C#, Javascript, node.js, Kotlin

### IDE and Editor

Vim, Notepad++, Android Studio, Visual Studio Code, Goland

### Development

Android Development, Web Development

### Operation System

Linux (Kali and Ubuntu), Windows, Windows Server

### Tools

Git, LaTeX, ProVerif, NS3, Mininet-Wifi, Acunetix, NMap, Nessus, Wireshark

Docker, Apktool, Dex2jar, VMware Workstation and ESXi, IIS, IDA Pro, Snort

## Languages

**Persian** Native

**English** Fluent (the IELTS test will be taken in October)

## Extracurricular Activity

### Conference Organization

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

2021 - 2022

- Reorganized the online conference platform and Headed the IT team to serve all online sessions and webinars at annual SJAU conference for 4 complete days

### Executive Consultant

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

2020 - 2022

- Developed executive plan and supervised a executive team of 40 people for 3 national entrance exam. *each exam has more than 1000 of student*

### Reviewed Article for Journals

RESEARCHER

Since 2019

- 2020** - IEEE Journal of Biomedical and Health Informatics
- 2019** - IEEE Internet of Things Journal
- 2019** - The Journal of Supercomputing

## Academic and Professional Membership

- IEEE Student Member
- Iranian Society of Cryptology Student Member
- Member of Executive committee of SJAU Local ACM contest
- Member of Executive committee of SJAU annual Pajouhesh workshops

## References

### 1. Dr. Majid Bayat

Thesis Supervisor

ASSOCIATE PROFESSOR OF COMPUTER ENGINEERING, SHAHED UNIVERSITY, TEHRAN, IRAN

**Email Address:** mbayat@shahed.ac.ir

**Website:** <http://research.shahed.ac.ir/WSR/WebPages/Teacher/TEn.aspx?TID=361>

### 2. Dr. Mohammadali Doostari

Thesis Supervisor

ASSOCIATE PROFESSOR OF COMPUTER ENGINEERING, SHAHED UNIVERSITY, TEHRAN, IRAN

**Email Address:** doostari@shahed.ac.ir

**Website:** <http://research.shahed.ac.ir/WSR/WebPages/Teacher/TEn.aspx?TID=235>

### 3. Dr. Habib Shahbazi

IT Director, Supervisor

SAYYED JAMALEDDIN ASADABADI UNIVERSITY

**Email Address:** hashahbzai@ut.ac.ir

**Website:** <http://sjau.ac.ir/en/hshahbazi>