Hamed Moasses

Gender: Male

March 4th, 1991 Birth Date: Sanandaj, Iran Birth Place:

Marital Status: Single

Contact

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Education

M.Sc. in Software Engineering

Department of Engineering, Sanandaj Branch, Islamic Azad University, Iran (Ranked 2nd among 2016 - 2020

Iranian universities, reported by <u>U.S News</u>)

GPA: 18.21/20 (A)

Thesis: Improvement of Energy Consumption in IoT Networks-Using Heterogeneous Clustering

in Energy

Advisor: Prof. Dr. Abdulbaghi Ghaderzadeh

Thesis Grade: 18 out of 20

2014 - 2016 **B.Sc.** in Software Engineering

Department of Engineering, Sanandaj Branch, Islamic Azad University, Iran (Ranked 2nd

among Iranian universities, reported by U.S News)

GPA: 15.78/20 (B)

Thesis: Implemented a Remote Home Monitoring and Control using Raspberry Pi

Advisor: Prof. Dr. Amir Sheikhahmadi

Thesis Grade: 20 out of 20

2009 - 2012 **Continuous Associate (Post High School) in Computer Software**

Department of Engineering, Sanandaj Institute of Technology (Shahid Yazdanpanah), Iran

GPA: 12.10 / 20 (C)

Thesis: Developed a Real Estate Online System, Using C#.NET

Advisor: Eng. Farzin Younesi

Research Interests

Internet of Things

Artificial Intelligence

5G Networks

Distributed Systems Wireless Communications Applied Machine learning

Systems

Optimization Algorithms

Connected-Intelligent

Selected Courses Grades

M.Sc. Advanced Computer Networks: 20/20 (A+)

Cloud Computing: 20/20 (A+)

Seminar: 20/20 (A+)

Advanced Algorithms: 17/20 (B+)

Advanced Software Engineering: 19/20 (A)

B.Sc. Software engineering: 20/20 (A+)

> Internet Engineering: 17/20 (B+) Artificial Intelligence: 17/20 (B+) Engineering Mathematics: 18/20 (B+)

Projects

- Simulated a Smart-Home with focusing on gas leakage detection system, MATLAB, Apr 2020-present
- Implemented and Simulated HetEng-Smart-BEEM with added 5G stack protocol, MATLAB, *IAU*, *Sanandaj branch*, *Sep 2019* (Part of the Master Thesis Project).
- Data Mining on a store's collected dataset, using Dataiku Tool, Hochschule Hannover, Germany
- Simulated Smart-BEEM, BEEM, BEE, HEED, LEACH protocols by 5 communication interfaces, using MATLAB, *IAU*, *Sanandaj branch*, *Feb 2019* (Part of the Master Thesis Project).
- Implemented Analyze dynamic behavior in controlling internet congestion modeling, MATLAB, *IAU*, *Sanandaj branch*, *Advanced Networks*, *Apr 2018*.
- Developed a Client-Server Android application (Stokala, a shopping App), JAVA, TDA team, 2017.
- Implemented and Programmed Smart-Home sensors, C++, Arduino, *UoK*, *IoT Lab*, *Oct* 2018.
- Implemented meta-heuristic algorithms (Genetic, PSO, Ant colony) using MATLAB, *IAU*, *Sanandaj* branch, *Advanced Algorithms*, fall 2017.
- Developed a Client-Server Android application (Language Learning App), JAVA, TDA team, 2017.
- Implemented ML and Data Mining techniques on skin cancer dataset, using WEKA lib, JAVA, IAU

Teaching Assistantship Experience

Spring 2020	Advanced Computer Networks (Implementation & Simulation in MATLAB for Clustering) –
	M.Sc Level, IAU, Sanandaj branch – online.

- Spring 2020 Computer Networks Lab M.Sc Level, IAU, Sanandaj branch online.
- Spring 2020 Computer Networks B.Sc Level, IAU Sanandaj branch online.
- Winter 2019 Java Core and Spring-Boot framework private tutor.
- Spring 2018 Cloud Computing (Emerging trends, open research areas, opportunities and challenges, Simulation of Fog Computing, M.Sc Level, IAU, Sanandaj Branch, Iran.
- Spring 2017 Cloud Computing (CloudSim in Java to implement cloud scenarios), M.Sc Level, IAU, Sanandaj branch, Iran.
 - Fall 2017 Basics of Programming And Computer, B.Sc level, IAU, Sanandaj Branch, Iran.

Publications

Moasses, H., Ghaderzadeh, A., Khamforoosh, K. (2021). HetEng: A Distributed Energy-Efficient Clustering Scheme for Heterogeneous IoT Networks. (Submitted in the 2021 IEEE International Conference (IAICT2021))

Moasses, H., Improvement of Energy Consumption in IoT Networks-Using Heterogeneous Clustering in Energy., *IAU*, *Sanandaj branch*, *Feb 2020*, *M.Sc Thesis (in Persian and English)*.

Industry Experience

2017- Present	Java Backend and Android Developer in <u>TDA team</u> located in <u>Science and Technology Park</u>
	of Kurdistan.
2015-2016	System and Network technician, Ahoora (Zhin) Technical Co, Iran.
2015-2015	Internship (System and Network technician), Farasystem Co, Sanandaj, Iran.
2015-2015	Network installation and Configuration, <i>Diabetic Society of Kurdistan, Iran</i> (Voluntary)

Attended Seminar and Workshops

Aug 2019	Summer School - Digital Transformation and Impacts on Economy and Society - 6 ECTS -
	Hochschule Hannover, Germany.

- Apr 2019 4th International Conference of Natural Sciences (ICNS2019) Mathematic & Computer, University of Kurdistan, (UoK), Iran
- Mar 2019 Workshop of "Internet of Things Communications and Protocols (advanced), <u>IoT Lab</u>, UoK.
- Nov 2018 Workshop of "Internet of Things basics and implementation using Arduino", IoT Lab, UoK.
- Apr 2018 Webinar of "Fog Computing and IoT solution Architecture, Eclipse IoFog", Kilton Hopkins.
- Oct 2017 Technical workshop of "Applied Machine Learning" (Science and Technology Park of Kurdistan.
- Sep 2017 Workshop of "Advanced Java: Backend-Android", Science and Technology Park of Kurdistan.

Technical Skills

• Languages: Java, C/C++, Python, C#, SQL, HTML& CSS, JavaScript, Node.js

• **Platforms:** Linux, Windows, Android, Raspbian

• Frameworks: Apache Maven, SpringBoot, Angular

• **Database:** PostgreSQL, SQLite

• Scientific: MATLAB, Python, Weka, CloudSim, Dataiku

• **Professional**: Microsoft Office, LATEX

Tools: IntelliJ IDEA, Android Studio, Eclipse IDE, Netbeans IDE, SQL Server Management

Studio, Git, Arduino, Packet Tracer

• Other: Multithreaded and Parrallel Programming, Micro services, Unit Testing and Test

Driven Development

• **Hardware platforms:** Raspberry Pi, Arduino

Memberships

2019-present Young Researchers and Elite Club (YREC)

2018-present Member of IEEE

2018- present Member of IEEE Young professionals, IEEE Internet of Things Community

2019-present Member of IEEE Sensor Council

Honors and Awards

2020 Master Thesis defend with evaluation of Excellence.

Received a full DAAD travel grant for attending the summer school, HsH, Hannover, Germany

Ranked within the **Top 15%** among SE Students in M.Sc. IAU, Sanandaj Branch, Iran.

Ranked **116**th/15000+ CS students, nationwide Azad university entrance exam for M.Sc. level Ranked **3**rd/20+ among SE Students in B.Sc. IAU, Sanandaj Branch, Iran.

2015 Silver medalist in regional swimming championships among Kurdistan province universities.

2011 Top Athlete award of the Institute, Shahid Yazdanpanah, Technical and Vocational University.

Silver medalist in national swimming championships among all national institutes of

technology.

Languages

Kurdish: Mother tongue

Persian: NativeEnglish: Fluent

• German: A1 (approx)

Sport Certifications & Hobbies

• Swimming Coach certified Swimming Mountaineering

• International Life Saving certified (ILS) Meditation Running

• Swimming referee certified Chess Nature exploring

References

Prof. Dr. Abdulbaghi Ghaderzadeh

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Department of Computer
Engineering, Islamic Azad
University, Sanandaj branch, Iran.
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B.Ghaderzadeh@1ausdj.ac.1r Google Scholar Prof. Dr. Dagmar Mack,

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Department of Business Informatics, Hochschule Hannover,

University of Applied Science and Arts, Germany

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<u>Dagmar.mack@hs-hannover.de</u> Academic Webpage Prof. Dr. Keyhan Khamforoosh

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Engineering, Islamic Azad University, Sanandaj branch, Iran. Keivhan.khamforosh@gmail.com

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