

Hamed Moasses

Gender: Male

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Education

- 2016 - 2020 M.Sc. in Software Engineering**
Department of Engineering, Sanandaj Branch, Islamic Azad University, Iran (Ranked 2nd among Iranian universities , reported by [U.S News](#))
GPA: 18.21/20 (A-)
Thesis: Improvement of Energy Consumption in IoT-Using Heterogeneous Clustering in Energy
Advisor: Dr. Abdulbaghi Ghaderzadeh
- 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: Dr. Amir Sheikhamadi
- 2009 - 2012 Continuous Associate in Computer Software**
Department of Engineering, Shahid Yazdanpanah Technical and Vocational University, Sanandaj, Iran
Thesis: Developed a Real Estate Online System, Using C#.NET
Advisor: Prof. Farzin Younesi

Research Interests

- Internet of Things
- 5G Networks
- Fog Computing
- Cloud Computing
- Efficient-Clustering
- Wireless Communication
- Artificial Intelligence
- Virtualization

Selected Courses Grades

M.Sc. Advanced Computer Networks: 20/20 (A+)
Cloud Computing: 20/20 (A+)
Automated Validation: 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+)
Multimedia Environments: 17.25/20 (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*.
- Developed unit test for electronic door, using JAVA and Junit, IAU, *Sanandaj branch, fall 2017*.

Teaching Assistantship Experience

Spring 2020	Advanced Computer Networks (Implementation & Simulation in MATLAB for Clustering) – <i>M.Sc Level, IAU, Sanandaj branch</i> – online.
Spring 2020	Computer Networks Lab – <i>M.Sc Level, IAU, Sanandaj branch</i> – online.
Spring 2020	Computer Networks – <i>B.Sc Level, IAU Sanandaj branch</i> – 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, <i>M.Sc Level, IAU, Sanandaj Branch, Iran</i>).
Spring 2017	Cloud Computing (CloudSim in Java to implement cloud scenarios), <i>M.Sc Level, IAU, Sanandaj branch, Iran</i> .
Fall 2017	Basics of Programming And Computer, B.Sc level, <i>IAU, Sanandaj Branch, Iran</i> .

Publications

Moasses, H., Gokan, M. Ghaderzadeh, A. (2020). An energy-efficient clustering scheme for heterogeneous IoT networks. (*under preparation*)

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

Industry Experience

2017- Present	Java Backend and Android Developer in TDA team located in Science and Technology Park of Kurdistan .
2015-2016	System and Network technician , Ahoora (Zhin) Technical Co , Iran.
2015-2015	Internship (System and Network technician) , <i>Farasystem Co, Sanandaj, Iran</i> .
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	4 th International Conference of Natural Sciences (ICNS2019) – Mathematic & Computer, University of Kurdistan, (UoK) , Iran
Mar 2019	Workshop of "Internet of Things Communications and Protocols (advanced), IoT Lab , 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, L^AT_EX
- **Tools:** IntelliJ IDEA, Android Studio, Eclipse IDE, Netbeans IDE, SQL Server Management Studio, Git, Arduino, Packet Tracer
- **Other:** Multithreaded and Parallel 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.
2019	Received a full DAAD travel grant for attending the summer school, HsH, Hannover, Germany
2018	Ranked within the Top 15% among SE Students in M.Sc. IAU, Sanandaj Branch, Iran.
2016	Ranked 116th /15000+ CS students, nationwide Azad university entrance exam for M.Sc. level
2015	Ranked 3rd /20+ among SE Students in B.Sc. IAU, Sanandaj Branch, Iran.
2011	Silver medalist in regional swimming championships among Kurdistan province universities.
2010	Top Athlete award of the Institute, Shahid Yazdanpanah, <i>Technical and Vocational University</i> .
2010	Silver medalist in national swimming championships among all national institutes of technology.

Languages

- Kurdish: Mother tongue
- Persian: Native
- English: Fluent
 - **Academic IELTS:** scheduled on Aug 2020
- German: A1 (aprox)

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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Prof. Dr. Keyhan Khamforoosh

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