Hamed Moasses

Gender: Male
Birth Date: March 4th, 1991
Birth Place: Sanandaj, Iran
Marital Status: Single

Contact

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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 Power Consumption in IoT Networks-Using Heterogeneous Clustering in Energy
Advisor: Prof. Dr. Abdulbaghi Ghaderzadeh
Thesis Grade: 18 out of 20

2013 - 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. Keyhan Khamforoosh
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
- Machine Learning
- 5G / 6G Networks
- Low-Power Networks
- Edge Computing
- Distributed Systems
- Wireless Communications
- Optimization Algorithms

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+)

Publications

- Moasses, H., Khamforoosh, K. (2021). A Reinforcement Learning Approach to Optimize IoT Compuation Offloading (under preparation)

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

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

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.
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.*

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), *Farasystem Co, Sanandaj, Iran.*
2014-2015	Network installation and Configuration, *Diabetic Society of Kurdistan, Iran* (Voluntary)

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.*
- 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*

Attended Seminar and Workshops

July2021	The 2021 IEEE International Conference on Industry 4.0, Artificial Intelligence and Communications Technology (IAICT) - 27-28 July - Indonesia.
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), IoT Lab, UoK.
Nov 2018	Workshop of "Internet of Things basics and implementation using Arduino", IoT Lab, UoK.
Oct 2017	Workshop of "Applied Machine Learning", Science and Technology Park of Kurdistan, Iran.

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 "Very Good (A)".
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
	Ranked **3rd**/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*.
2010	Silver medalist in national swimming championships among all national institutes of technology.

Languages

- Kurdish: Mother tongue
- Persian: Native
- English: Fluent
- German: A1 (approx)

Sport Certifications & Hobbies

- Swimming Coach certified	Swimming	Mountaineering
- International Life Saving certified (ILS)	Meditation	Running
- Swimming referee certified	Chess	Hiking

References

Prof. Dr. Abdulbaghi Ghaderzadeh
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Department of Computer Engineering, Islamic Azad University, Sanandaj branch, Iran.
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Google Scholar

Prof. Dr. Dagmar Mack,
Professor,
Department of Business Informatics, Hochschule Hannover, University of Applied Science and Arts, Germany
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Prof. Dr. Keyhan Khamforoosh
Assistant Professor,
Department of Computer Engineering, Islamic Azad University, Sanandaj branch, Iran.
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