Hamed Moasses

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

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
Project Grade: 18.5 out of 20

Research Interests

- Internet of Things
- Machine Learning
- 5G and 6G Networks
- Optimization Algorithms
- Edge Computing
- Distributed Systems
- Cognitive Networking
- High-Performance Computing

Selected Courses Grades

M.Sc.
Advanced Computer Networks: 20 out of 20 (A+)
Cloud Computing: 20 out of 20 (A+)
Seminar: 20 out of 20 (A+)
Advanced Algorithms: 17 out of 20 (B+)
Advanced Software Engineering: 19 out of 20 (A)

B.Sc.
Software engineering: 20 out of 20 (A+)
Internet Engineering: 17 out of 20 (B+)
Artificial Intelligence:17 out of 20 (B+)
Engineering Mathematics: 18 out of 20 (B+)

Publications

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

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

- Seyed Mohamadi, M., Khamforoosh, K., **Moasses, H**., "Ant Colony Optimization Based Clustering Approach using CUDA for BigData Environments" (under preparation)

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

Teaching Assistantships

Spring 2020	Advanced Computer Networks (Implementation & Simulation in MATLAB for Clustering) – *M.Sc Level, IAU, Sanandaj branch* – online.
Spring 2020	Computer Networks Lab – *B.Sc Level, IAU, Sanandaj branch* – online.
Spring 2020	Computer Networks – *B.Sc Level, IAU Sanandaj branch* – online.
Spring 2018	Cloud Computing, *M.Sc Level, IAU , Sanandaj Branch , Iran*.
Spring 2017	Cloud Computing, *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, personal project, 2020.
- 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](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

Jul 2021	The 2021 IEEE International Conference on Industry 4.0, Artificial Intelligence and Communications Technology (IAICT2021) - 27-28 July - Indonesia.
Dec 2020	Webinar of "Machine Learning: Pros & Cons", held by UOK and Scotiabank-DSA lab, Canada.
Nov 2019	Workshop of "Distributed Systems", High Performance Computing Center, University of Kurdistan, Iran
Aug 2019	International 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](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, 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)".
	Received a full DAAD travel grant for attending the summer school, HsH, Hannover, Germany
2019	Ranked within the **Top 15%** among SE Students in M.Sc. IAU, Sanandaj Branch, Iran.
2018	Ranked **116th**/15000+ CS students, nationwide Azad university entrance exam for M.Sc. level
2016	Ranked **3rd**/20+ among SE Students in B.Sc. IAU, Sanandaj Branch, Iran.
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: Basic

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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