Hamed Moasses

Gender: Male

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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 (3.77 / 4.0)
Thesis: Improvement of Power 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 (3.15 / 4.0)
Thesis: Designed and developed a Home Monitoring And Control using Raspberry Pi
Advisor: Dr. Amir Sheikhahmadi

2009 - 2012

Continuous Associate in Computer Software
Department of Engineering, Shahid Yazdanpanah Technical and Vocational University , Sanandaj, Iran)
Thesis: Designed and developed a Real Estate online system
Advisor: Prof. Farzin Younesi

Research Interests

- Internet of Things
- Edge computing
- Cyber-Physical Systems
- Distributed Computing
- Cloud Computing
- 5G Network
- QoS/QoE

Selected Courses

M.Sc.
Advanced Computer Networks (4.0 / 4.0)
Cloud Computing (4.0 / 4.0)
Automated Validation (4.0 / 4.0)
Advanced Algorithms (3.4 / 4.0)
Advanced Software Engineering (3.8 / 4.0)

B.Sc.
Software engineering (4.0 / 4.0)
Internet Engineering (3.4 / 4.0)
Artificial Intelligence (3.4 / 4.0)
Engineering Mathematics (3.6 / 4.0)
Multimedia Environments (3.5 / 4.0)

Projects

Academic Projects:
- Implemented HetGen-Smart-BEEM with added 5G stack protocol, MATLAB (*IAU, Sanandaj branch*, *Sep 2019* (Part of the Master Thesis Project)
- Implemented Smart-BEEM, BEEM, BEE, HEED, LEACH protocols by 5 communication interfaces, MATLAB (*IAU, Sanandaj branch*, *Jan 2018* (Part of the Master Thesis Project))
- Simulated a WSN Network , Opnet modeler (*IAU, Sanandaj branch*, *2018*)
- Implemented meta-heuristic algorithms (Genetic, PSO, Ant colony) using MATLAB (*IAU, Sanandaj branch*, *2017*)
- Developed unit test for electronic dor , Java (*IAU, Sanandaj branch*, *2017*)
- Designed and implemented a sensor to detection of distance using Arduino, (UoK, [IoT Lab](#), 2018)

Industrial Projects:
- Client-Server Android application ,(Construction Project Management System) , *TDA team ,2017*
- Client-Server Android application (English Learning App), *TDA team , 2017*
- Client-Server Android application (Stokala , an online shopping App) , *TDA team, 2018*

Teaching Assistantship Experience

Spring 2020 Advanced Computer Networks (Implementation & Simulation in MATLAB for Clustering) – *MS.c Level, IAU, Sanandaj branch*

Spring 2020 Computer Networks Lab – *BS.c Level, IAU, Sanandaj branch*

Spring 2020 Computer Networks – *BS.c Level, IAU Sanandaj branch*

Spring 2018 Cloud Computing (Emerging trends, open research areas, opportunities and challenges, Simulation of Fog Computing), *MS.c Level, IAU , Sanandaj Branch , Iran*

Spring 2017 Cloud Computing (CloudSim in Java to implement cloud scenarios), *MS.c Level, IAU, Sanandaj branch*

Fall 2017 Basics of Programming And Computer , *IAU , Sanandaj Branch , Iran*

Industry Experience and Activities

2017- Present Java Backend and Android Developer in [*TDA team*](#) ([*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*

2015-2015 Systems and Network installation and Configuration , *Diabetic Society of Kurdistan , Iran* (Voluntary Activity)

Publications

"Improvement of energy consumption in IoT nodes using 5G protocol stack based on clustering method" *(in preparation)*

"Coverage improvement in heterogeneous IoT nodes for future networks" (*in preparation*

Selected Seminar and Workshops

Aug2019 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, [Kurdistan University, Iran](#) (UoK)

Mar 2019

Nov 2018 Workshop of "Internet of Things Communications and Protocols (advanced), [IoT Lab](#), UoK

Apr 2018 Workshop of "Internet of Things basics and implementation using Arduino", IoT Lab , UoK

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 Advanced Java: Backend-Android (Science and Technology Park of Kurdistan)

Technical Skills

- **Languages**: Java, C/C++, C#, VB, SQL, Python
- **Platforms**: Linux, Windows, Android , Raspbian
- **Frameworks**: Apache Maven, SpringBoot
- **Database**: PostgreSQL, SQLite, Microsoft SQL Server
- **Scientific**: MATLAB, OPNET modeler, Python, Weka, CloudSim, Dataiku
- **Professional**: Microsoft Office, LaTeX
- **Tools:** IntelliJ IDEA, Android Studio, Eclipse IDE, Netbeans IDE, PgAdmin,SQL Server Management Studio, Git , Arduino, Packet tracer,
- **Other**: Multithreaded and Parrallel Programming , MicroServices ,Unit Testing and Test Driven Development, Raspberry pi, Arduino

Memberships

2019-present	Young Researchers and Elite Club (YREC)
2018-present	Member of IEEE society
2018- present	Member of XXX society

Honors and Awards

2020	Master Thesis defend with evaluation of Excelence
2019	DAAD Visiting Student Travel Grant Award, Hannover, Germany
2018	Ranked within the **Top 15%** among SE Students in M.Sc. IAU, Sanandaj Branch
2016	Ranked **116th**/15000+ CS students in nationwide university entrance exam for M.Sc. level
2015	Ranked **3rd**/20+ among SE Students in B.Sc. IAU, Sanandaj Branch
2011	Silver medalist in regional swimming championships among universities of province
2010	Top Athletic award of the Institute , Shahid Yazdanpanah Institute of Technology
	Silver medalist in national swimming championships among all national institutes of technology

Languages

- Kurdish: Mother tongue
- Persian: Native
- English: Fluent
  - ➢ **Academic IELTS**: scheduled on Apr 2020
- German: Elementary

Sport Certifications & Hobbies

• Swimming Coach certified	Swimming	Mountaineering
• International Life Saving certified (ILS)	Yoga	Running
• Swimming referee certified	Chess	

References

Dr.Abdulbaghi Ghaderzadeh
Assistant Professor,
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