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Education

09/2020 – 08/2023 📖 **M.Sc. Computer Engineer(network Engineer Branch)**, Ferdowsi University of Mashhad.
Thesis title: *Network Assurance in Intent-Based Network by Energy Efficiency Approach.*
supervisor: Mohammad Hossein Yaghmaee Moghaddam . . .
GPA : 17.87 out of 20 ranked 3rd

09/2015 – 02/2020 📖 **B.Cs. Computer Engineer, Ferdowsi University of Mashhad** in Software Engineer.
Final Project: *Health care system production and patient health data analysis.*
supervisor : Mehran Garmehi . . .
GPA : 16.2 out of 20 ranked 2nd

Teacher Assistant Experience

Digital Design

1/2017 – 6/2018 📖 **Department of computer Engineering,** University of Bojnord.
Teaching assistant and midterm examiner.
supervisor : Ali asghar Yarifard

Computer Architectures

1/2018 – 6/2019 📖 **Department of computer Engineering,** University of Bojnord.
Teaching assistant , project supervisor And midterm examiner.
supervisor : mehran garmehi .




Publications

Accepted 9/2023 📖 **"Pruning and Mixed Precision Techniques for Accelerating Neural Network"** 13th conference of ICCKE (IEEE supported).
Authors: mahsa zahedi, mohammad.s Abazari, Abdorreza savadi.


Accepted 10/2023 📖 **"Data center Energy Optimization through Request Type Analysis and Real-time Power Consumption Prediction"** The 4th international Conference on Electronic Engineering, Computer, Mechanics and Artificial Intelligence.
Authors: mohammad.s Abazari, Mahsa zahedi, Mohammad.h Yaghmaee.

Accepted 5/2024 📖 **"Analyzing Power Usage in Datacenter Workloads Using Random Forest and LSTM Models"** The 8th international Conference on Smart cities, Internet of Things and Application (SCIOT2024).
Authors: mohammad.s Abazari, Mohammad.h Yaghmaee.

Publications (continued)





- under Review  **"Energy Consumption Optimization of Data Centers in Intent-Based Networking by Network Assurance Engine"** Future Generation Computer Systems.
Authors: mohammad.s Abazari, Mohammad.h Yaghmaee.
- under Preparation  **"Performance Enhancement of Neural Networks through Network Pruning and Tensor Core-Based Matrix Compression"** IEEE Transactions on Artificial Intelligence.
Authors: Mahsa Zahedi, Mohammad.s Abazari, Abdorreza Savadi.
- Google Scholar  Click **here** For my Scholar link

Master Thesis

- 09/2020 – 08/2023  **service Assurance in Intent-Based Network by Energy-Efficiency Approach**
This thesis is centered on understanding the potential of the Intent Assurance Unit in an intent-based network. and explores the effectiveness of utilizing Intent Assurance within Intent-based Networks to enhance power efficiency and maintain optimal user experiences. We investigate how this approach can optimize energy consumption while ensuring quality of service for various user requests. Our study involves two datasets: the GWA-T-13 MATERNA dataset and the MIT Supercloud Dataset. We employ a Random Forest model to energy consumption detection reactively and a CNN-LSTM model for time series data energy consumption forecasting. Additionally, we introduce power management algorithms to dynamically adjust resource usage based on predicted power levels. The evaluation demonstrates accurate energy predictions and successful algorithm responses. This research sheds light on leveraging Intent Assurance for better power management and user satisfaction in data centers.

Related Courses

Master's Degree

- Advance Network Security  **GPA: 4 (18/20)** Final Project : IoT Security with Blockchain Solution
- Multimedia Networks  **GPA: 4 (19/20)** final project: Noise filtering in VOIP Protocol.
- Distributed Systems  **GPA: 4 (18.25/20)**
- Green Computing  **GPA: 4 (19/20)** Final Project : Net Zero Energy Building and Smart House designing

Bachelor's Degree

- Data Structures  **GPA: 4 (19.5/20)**
- Theory of Languages and Machines  **GPA: 3.7 (16.84/20)**
- Operating Systems  **GPA: 4 (20/20)**
- Compiler Design Principles  **GPA: 4 (18.75/20)**
- Programming Languages Designing  **GPA: 4 (18.5/20)**

Related Courses (continued)








Online Courses

- Advanced Learning Algorithms  **GPA: 100/100** :: certification
- Supervised Machine Learning  **GPA: 100/100** :: certification



Research Interest

-  Machine Learning, Neural Network, Cloud Computing, Data mining, Cybersecurity, Software Engineering, Big Data Analysis , Future Network Architecture, distributed System, IoV, IoT, Smart grid.



Skills

- Languages  **Duolingo English Test: 135.(Literacy 145, Comprehension 140, Conversation 115, Production 105)**
 **Persion Native.**
- Coding  Python, Java, Android, VHDL, PHP, HTML, CSS, Laravel, \LaTeX , ...
- Databases  MySQL, SQLite.
- Web Dev  HTML, CSS, JavaScript, Apache Web Server.
- Software  Anaconda, Jupyter Notebook, Pycharm, Webstorm, Visual Studio, Android Studio, Arduino IDE, Texmaker, Office (WORD, POWER POINT, EXCEL), Adobe Photoshop.
- Misc.  Academic research, teaching, training, \LaTeX typesetting and publishing, Graphic Designer, Network Configuration, PC Assembling .



Employment History

- 2019 – 2020  **Freelancer.** programming in C++, VHDL And Web Designing.
- 2018 – 2020  **Network technician.** Network configuration for mining rig and mining farm. Maintenance and repair of ASIC-based miners.

Memberships

- 6th SCIOT Conference  **Executive Committee**, located at Ferdowsi University of Mashhad.
- IPPBX Lab  **server Manager And Researcher at IP Public Branch Exchange**, Ferdowsi University of Mashhad.

References

- Mohammad.h Yaghmaee.M  Full professor at Ferdowsi University of Mashhad. **google scholar**.
E-Mail: hyaghmae@um.ac.ir
- Haleh Amintoosi  Associate professor at Ferdowsi University of Mashhad. **google scholar**.
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