

# HAMED NAZARI

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<https://nazarihamed.github.io>

[Google Scholar](#)

## EDUCATION

SEP 2021 – PRESENT

**M.Sc. Computer Science**

University of Regina, Regina, Saskatchewan, Canada

Research Focus: "Reinforcement Learning (RL)-driven service function chaining and SDN-based routing" GPA: 90/100 (4/4)

SEP 2014 – SEP 2017

**M.Sc. Information Technology – Computer Networking**

Urmia University, West Azerbaijan, Urmia, Iran

Thesis: "A Novel Approach for Traffic Engineering in Software-defined Wireless Networks" GPA: 17.77/20 (3.81/4)

SEP 2010 – NOV 2013

**B.Sc. Information Technology**

Islamic Azad University, Bushehr Branch, Bushehr, Iran

Final Project: "A Social Media Data Collector: Facebook Use case" GPA: 18.52/20 (3.87/4)

## RESEARCH INTERESTS

**My research interests include (but not limited to):**

- ✓ Machine Learning applications in computer networks including NFV, SDN, IoT
- ✓ Network Protocols
- ✓ Optimization Techniques and Metaheuristic Algorithms
- ✓ Novel approaches in Traffic Engineering
- ✓ Quality of Experience

## PUBLICATIONS

### JOURNALS

- ✓ Zhang, X., & **Nazari, H.** (2022). An Efficient Resource Management Mechanism Based on Developed Political Optimizer in Fog Computing. *Cybernetics and Systems*, 1-15. [PDF]
- ✓ Gong, J., **Nazari, H.** (2021) "A Fuzzy Bandwidth and Delay Guaranteed Routing Algorithm for Performance of Video Conference over MPLS Networks", *Journal of Ambient Intelligence and Humanized Computing*, November 5, pp. 1-12. [PDF]
- ✓ Rezaeipanah, A., Amiri, P., **Nazari, H.**, Mojarad M., Parvin H. (2021) "An Energy-Aware Hybrid Approach for Wireless Sensor Networks Using Re-Clustering-Based Multi-Hop Routing", *Wireless Personal Communications Journal*, June 15, pp. 1-22. [PDF]
- ✓ Rezaeipanah, A., **Nazari, H.**, & Abdollahi, M. (2020) "Reducing Energy Consumption in Wireless Sensor Networks Using a Routing Protocol Based on Multi-level Clustering and Genetic Algorithm." *Journal of Computing Science and Engineering*, 13(4), 163-174. [PDF]
- ✓ Rezaeipanah, A., **Nazari, H.**, & Ahmadi, G. (2019). "A Hybrid Approach for Prolonging Lifetime of Wireless Sensor Networks Using Genetic Algorithm and Online Clustering." *Journal of Computing Science and Engineering*, 13(4), 163-174. [PDF]

## CONFERENCES

- ✓ **Nazari, H.**, Eslamnour, B. (2017, May), "A Novel Approach for Traffic Engineering in Software-defined Wireless Networks", 2nd International Conference on Electrical Engineering, Allameh Tabatabai University, Tehran, Iran (in Persian). [PDF]
- ✓ Jalili, A., **Nazari, H.**, Namvarasl, S., & Keshtgari, M. (2017, December), "A comprehensive analysis of control plane deployment in SDN: In-band versus out-of-band solutions", IEEE 4<sup>th</sup> International Conference on Knowledge-Based Engineering and Innovation (KBEI), (pp. 1025-1031). [PDF]

## PRESENTATION

2016

### **SDN: From Concept to Implementation Workshop**

The 2<sup>nd</sup> National Conference on Distributed Computing and Big Data Processing, 2016, Shahid Madani University, Tabriz, Iran.

## EXPERIENCES

### **SEP 2021 – PRESENT**

#### **Graduate Research Assistant**

#### **University of Regina, Regina, Saskatchewan, Canada**

Research Focus: " Reinforcement Learning (RL)-driven service function chaining and SDN-based routing"

### **SEP 2022 – MAY 2023**

#### **Mitacs Intern**

#### **University of Regina, Regina, Saskatchewan, Canada**

**Project:** Machine Learning Solutions for CDN auto-scaling and placement

### **JAN 2023 – APR 2023**

#### **Class Assistant & TAs Head**

#### **University of Regina, Regina, Saskatchewan, Canada**

CS 335: Computer Networks

I have been updating assignments based on new advancements in computer networking area, responding to students inquiries and questions related to the lecture, as well as coordinating and guiding TAs in marking.

### **SEP 2022 – DEC 2022**

#### **Teacher Assistant**

#### **University of Regina, Regina, Saskatchewan, Canada**

CS 210: Data Structures & Abstractions

I was responsible for marking assignments which were mainly based on C++ programming and midterm and final exams.

### **JAN 2022 – APR 2022**

#### **Graduate Teacher Assistant**

#### **University of Regina, Regina, Saskatchewan, Canada**

CS 890EU: Foundation of Modern Networks

I designed and marked assignments which were mainly related to practical experiments on SDN networks including Mininet and Ryu controller programming.

### **JAN 2022 – APR 2022**

#### **Sessional Lab Instructor**

#### **University of Regina, Regina, Saskatchewan, Canada**

CS 110: Problem Solving and Programming Lab

I was responsible for teaching and instructing undergrad students' basic concepts of C++ programming in a practical manner during lab time and marking them.

**SEP 2019 – JAN 2021****Sessional Instructor****Islamic Azad University, Bushehr Branch, Bushehr, Iran**

Taught courses:

- ✓ Advanced Programming (C#)
- ✓ Technical English for Computer Science
- ✓ Computer Networks LAB
- ✓ Operating Systems LAB

**JAN 2020 – JAN 2021****Sessional Instructor****Islamic Azad University, Borazjan Branch, Bushehr, Iran**

Taught courses:

- ✓ Fundamentals of Programming (C#)
- ✓ Operating Systems LAB

**SEP 2018 – SEP 2020****Sessional Instructor****Rahjuyan Danesh University of Borazjan, Bushehr, Iran**

Taught courses:

- ✓ Technical English for Computer Science
- ✓ Computer Networks
- ✓ Computer Networks LAB
- ✓ Operating Systems LAB

**SEP 2017 – JAN 2019****IT Technician****Ministry of Agriculture, Bushehr Branch, Bushehr, Iran**

I was responsible for detecting and troubleshooting computers and networking issues within the organization within the whole Bushehr province, Iran

**SEP 2017 – JAN 2019****Head of ICT Department & Instructor****Mojtame Fanni Tehran, Borazjan branch, Bushehr, Iran**

I was responsible for scheduling courses, providing and conducting the online courses final evaluation, along with assessing trainers' overall performance. I have also instructed courses such as:

- ✓ C# programming
- ✓ Network+
- ✓ ICDL

**SEP 2011 – SEP 2013****Teacher Assistant****Islamic Azad University, Bushehr branch, Bushehr, Iran**

I was TA of the following courses:

- ✓ Fundamentals of Programming (C#)
- ✓ Advanced Programming (C#)
- ✓ Digital Design

**DEC 2014 – SEP 2015****Coordinator - Computer Laboratory (student job)****Department of Computer Engineering, Urmia University**

I was responsible for reporting computer laboratory equipment requirements, fixing hardware and software faults and scheduling students use.

**SKILLS**

**Programming Languages & Tools:** C# (Excellent), Python (Good), C/C++ (Fair), MATLAB (Good), Java (Good), GoLang (Fair), Git (Good)

**Machine Learning Tools & Libraries:** Python, Numpy, Pandas, Matplotlib, Scikit-learn  
**Networking Tools & Simulators:** Mininet, Mininet-wifi, SDN controllers (e.g. Floodlight, Ryu, POX), NS-2  
**Cloud Services:** AWS (Fair)  
**Type Settings:** MS Word, Latex  
**Hardwares:** Raspberry PI, Arduino  
**OS:** Windows, Linux

## LANGUAGES

Persian (Native)  
English (Fluent)

## HONORS & AWARDS

- ✓ Saskatchewan Innovation and Excellence Graduate Scholarship, 2022
- ✓ Faculty of Graduate Studies and Research Thesis Only Scholarship, 2022
- ✓ Ranked 1st among Information Technology Engineering B.Sc. students in Bushehr Islamic Azad University, 2013.
- ✓ Ranked among the top 3% of more than 11000 participants taking part in the M.Sc. entrance exam of IT Engineering in Iran, 2014.

## REFERENCES

**Dr. Nashid Shahriar** (M.Sc. Supervisor)

**Dr. Mohammad Malekzadeh** (B.Sc. Supervisor)