

# Seyed Nami Modarressi

Location: Tehran-Iran

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Website: namimod.github.io

Github: github.com/NamiMod

Linkdin: Nami Modarressi

## RESEARCH INTERESTS

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- Software Engineering
- Human-Computer Interaction
- Design and Analysis of Algorithms
- Extended Reality
- User Interface
- Software Analysis

## EDUCATION

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- **Amirkabir University of Technology(Tehran polytechnic)** Tehran - Iran  
B.Sc. in Computer Engineering Since September 2018  
GPA: 18.1/20  
Supervisor: Prof. Babak Sadeghiyan [homepage]  
Related courses:
  - Software Engineering: 20/20
  - Advanced Programming: 20/20
  - Web Programming: 19.5/20
  - Algorithm Design: 19.5/20
  - Principles and Applications of Artificial Intelligence: 19.7/20
  - Operating Systems: 18.74/20
  - Microprocessor and Assembly Language: 20/20
  - Principles of Database Design: 18.06/20
- **Allame Helli 1 High School(NODET)** Tehran - Iran  
High School Diploma in Mathematics and Physics. September 2015 - June 2018  
GPA: 19.52/20

## HONORS AND AWARDS

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- Ranked as Top 1% among more than 130,000 participants in National Entrance Exam for Undergraduate Stet University, Tehran, 2018.
- Educated in Iranian National Organization for Development of Exceptional Talents Secondary and High School (NODET), Tehran, 2011 - 2018.
- Awarded as university's exceptionally talented student, Tehran, Since 2018

## WORK AND RESEARCH EXPERIENCE

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- **Hamrahe Aval (IRMCI) and University of Tehran** Tehran - Spring 2021  
Design a system and fundamental libraries for IOT communication based on MQTT and HTTP protocols for both High bitrate and ultra-low power Communication. Collaborate with Prof. Modarressi [homepage].
- **Institute for Research in Fundamental Sciences** Tehran - Summer 2022  
Analyzing Twitter using graph neural networks in order to find critical tweets and events.

## UNIVERSITY TEACHING ASSISTANT EXPERIENCE

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- **Advanced Programming** Spring 2021  
Instructors: Dr. Kalbasi [homepage] & Dr. Edalat [homepage]
- **Algorithm Design** Spring 2022  
Instructors: Dr. Shahreza [homepage] & Dr. Bagheri [homepage]
- **Microprocessor and Assembly Language** Spring 2022  
Instructors: Dr. Farbeh [homepage]
- **Principles and Applications of Artificial Intelligence** Fall 2022  
Instructors: Dr. Javanmardi [linkedin]

## SKILLS

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- **Programming Languages:** C, C++, Python, Java, JavaScript, HTML, CSS, SQL, Arm Assembly, Visual Basic, QBasic
- **Software and Simulations:** Git, Docker, Xcode, Postman, Wireshark, PyCharm, IntelliJ, Clion, DataGrip, Sql Server, MySQL, Arduino IDE, ISE, ModelSim
- **Devices:** Arduino, ESP Modules, Raspberry PI, Google TPU edge
- **Languages:**
  - Persian: Native
  - English: Advanced  
TOEFL iBT: 94(R:23, L:25, S:23, W:23)
  - Arabic: Basic Knowledge

## NOTABLE PROJECTS

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- **CoDet**  
Implementation of an app-based COVID-19 detection system for CXR images and CT scans using VGG16, VGG19, ResNet50 and InceptionV3 models [Code]
- **XV6-Kernel Thread**  
Implementation of Kernel Thread in XV6 [Code]
- **Plants vs Zombies**  
Implementation of Plants Vs Zombies game with Graphics using java swing [Code]
- **Pac-Man**  
Implementation of search algorithms, multiagent minimax and expectimax algorithms, alpha-beta pruning, model-based and model-free reinforcement learning algorithms in the Pacman game [Code]
- **Snail Jumper**  
Implementation of a neuroevolution algorithm in a game [Code]
- **Mailor**  
Implementation of a mailing system to send notifications for an university [Code]
- **FuzzyEH**  
Implementation of a fuzzy expert system for heart disease diagnosis [Code]
- **Gity**  
Implementation of a Git like version controlling system [Code]
- **E-Learning-Database**  
Implementation of a Database for a university E-learning management system [Code]