Seyed Nami Modarressi

Location: Tehran-Iran
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Github: github.com/NamiMod
Linkdin: Nami Modarressi

RESEARCH INTERESTS

- Software Engineering
- Human-Computer Interaction
- Design and Analysis of Algorithms
- Vitual/Augmented Reality
- User Interface
- Software Analysis

EDUCATION

- **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 Databse 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

- 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

- **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

- **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 [linkdin]

SKILLS

- **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: TOEFL iBT: To be taken on Oct 30, 2022
  - Arabic: Basic Knowledge

NOTABLE PROJECTS

- **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]