

Siamak Beikzadeh

Linkedin: <https://www.linkedin.com/in/siamak-beikzadeh-b6b80aa8/>

Github: github.com/cyamac1993

Email: sbeikzadeh@umass.edu

Mobile: +1-413-8244-253

EDUCATION

- University of Massachusetts Amherst** Amherst, MA
• *Ph.D. Computer Science ; GPA: 4/4* January 2021 - June 2026
Current Research: Advanced Multimedia Networks, AR/VR
- Amirkabir University of Technology** Tehran, Iran
• *M. Sc. Computer Engineering ; GPA: 4/4* July 2018 - June 2020
Thesis title: Scalable Blockchain-based method for improving accountability in software defined network
- Sharif University of Technology** Tehran, Iran
• *B. Sc. Computer Engineering ; Last two years GPA: 3.6/4* July 2012- June 2017
Thesis title: Gaussian Three-Dimensional kernel SVM for Edge Detection Applications

SKILLS SUMMARY

- Languages:** Python, C/C++,Swift, Matlab, JavaScript, SQL, JAVA
- Frameworks:** Opencv, TensorFlow,Pytorch, Keras, Django, Flask, NodeJS
- Tools:** Docker, GNS3,Netsim, GIT, MySQL, SQLite
- Platforms:** Linux, Web, Windows, Raspberry,Jetson tx , Zodiac FX, AWS, CloudLab,FABRIC
- Network:** Network Design, SDN/NFV, Performance Evaluation
- Blockchain:** Ethereum , Hyperledger Fabric , TON , Multichain , IOTA
- AR/VR:** Hololens 2 , Unity

EXPERIENCE

- Research on 5G and AETHER**
• *Studying 5G and AETHER* with Prof. Jim Kurose and Prof.Michael; Zink, UMass Amhesrt, Spring 2022
- Telecommunication Research Center**
• *Researcher/Developer* Jan 2019 - Dec 2020
 - **startup for token-based Taxi payment:** Made a blockchain-based platform for Taxi Network
 - **Smart contract:** Writing different smart contracts.
- Arman Pardaz Inc.**
• *iOS developer (Part-time, Contractual)* Jan 2014 - June 2014
 - **Develop and maintain an iOS app for the company:** Turned their Website into an iOS app

PROJECTS

- Object Detection and Tracking in 360 Degree Videos:** We proposed a new method to detect and track object in the 360-degree videos. For this matter, we created our own 360- degree video dataset, and by leveraging of ROI technique and selecting a correct area of the image and then project it in 2D image we gain computational frugality as well as a better precision compared to previous works. (fall '2020)
- SuperResolution-based Edge Assisted 360-Video Streaming System:** We explore a new three-tier architecture to handle the streaming of 360 videos to help reduce the bandwidth capacity on the core network of these cloud providers. (fall '2021)

PUBLICATIONS

- Gaussian Three-Dimensional kernel SVM for Edge Detection Applications:** published in international conference in computer science and electrical engineering (December '2015)

Developing an Optimal 360-degree Video Streaming Using Multicasting for a Better QoE: Submitted/Under review (September 2023)

HONORS AND AWARDS

- 10 excellent students , in my master program - May, 2019
- Ranked 12th, in the national university entrance exam for Master degree, 2020
- Best Presentation, in international conference in computer science and electrical engineering, 2015

RESEARCH EXPERIENCE

- University of Massachusetts Amherst, Research Assistant** Amherst, MA
• *Focus on QoE and the goal of devising novel QoE*
metrics and evaluation methods to assess cybersickness in 360° video over the Internet .May 2021 - Present
- University of Massachusetts Amherst, Research Assistant** Amherst, MA
• *Design and implementing network and streaming part of a virtual conference which is using AR/VR*
technologies for better QoE. may 2021 - Present

TEACHING EXPERIENCE

- (TA) Computer network course Amirkabir University of Technology, Spring - Spring, 2017 & Fall, 2018
- Computer networks and security Lab instructor Amirkabir University of Technology, Spring - Spring, 2018 & Fall, 2019,