

Siamak Beikzadeh

LinkedIn: siamak-beikzadeh

GitHub: cyamac1993

sbeikzadeh@umass.edu

+1-413-8244-253

EDUCATION

- **University of Massachusetts Amherst** Amherst, MA
M.Sc. Computer Engineering Feb 2022 - May 2025 (Expected)
 - **Research:** Advanced Multimedia Networks, AR/VR, QoE
- **Amirkabir University of Technology** Tehran, Iran
M.Sc. Computer Engineering, GPA: 4.0/4.0 July 2018 - June 2020
 - **Thesis:** Blockchain-based Accountability in SDN
- **University of Tabriz** Tabriz, Iran
B.Sc. Computer Science, GPA: 3.6/4.0 July 2012 - June 2017
 - **Thesis:** 3D SVM kernel for Edge Detection

SKILLS

- **Languages:** Python, C/C++, Swift, MATLAB, JavaScript, SQL, Java
- **Frameworks:** OpenCV, TensorFlow, PyTorch, Keras, Django, Flask, Node.js
- **Tools:** Docker, GNS3, Git, MySQL, SQLite
- **Platforms:** Linux, Windows, AWS, Raspberry Pi, Jetson TX, FABRIC
- **Specialties:** Network Design, SDN/NFV, Blockchain (Ethereum, Hyperledger Fabric), AR/VR (Hololens 2, Unity)

EXPERIENCE

- **University of Massachusetts Amherst** Amherst, MA
Research Assistant May 2021 - Present
 - **5G & AETHER:** Research on 5G networks under Prof. Jim Kurose and Prof. Michael Zink.
 - **QoE in 360° Video:** Developing solutions to assess cybersickness in 360° video streaming.
 - **MiVirtualSeat:** Semantics-aware content distribution for immersive meetings with Prof. Ramesh Sitaraman, Prof. Michael Zink, and Prof. Klara Nahrstedt.
- **Telecommunication Research Center** Tehran, Iran
Researcher/Developer Jan 2019 - Dec 2020
 - **Blockchain Taxi Payment:** Developed a blockchain platform for taxi payments.
 - **Smart Contracts:** Designed various smart contracts.

PROJECTS

- **Object Detection in 360° Videos:** Developed a method efficient object detection and tracking in 360-degree videos using an ROI technique and 2D projection for improved precision and reduced computational cost.
- **Edge-Assisted 360° Video Streaming:** Proposed a three-tier architecture to optimize 360° video streaming using edge computing.

PUBLICATIONS

- **Gaussian Three-Dimensional kernel SVM for Edge Detection Applications:** Published in Int. Conf. on Computer Science & Electrical Engineering (Dec 2015).
- **360° Video Streaming Using Multicasting:** Submitted for publication, under review.

AWARDS

- **Top 10 Students:** Ranked among top 10 M.Sc. students at Amirkabir University (2019).
- **Ranked 12th:** National university entrance exam for M.Sc. (2020).
- **Best Presentation:** Int. Conf. on Computer Science & Electrical Engineering (2015).

TEACHING EXPERIENCE

- **Teaching Assistant:** TA for Computer Networks (2017, 2018), Advanced Programming (2019), Computer Security (2018, 2019) at Amirkabir University of Technology.
- **Instructor:** Computer Networks and Security Lab Instructor at Amirkabir University of Technology (2018-2019).