Omid Mashayekhi

Address: Gates 284, Stanford Univ. Stanford, CA 94305

Education

Experience

Stanford University (expected graduation: June 2017)

Ph.D. in Electrical Engineering, Cloud Computing

Ph.D. Minor in Computer Science, Systems Track

M.Sc. in Electrical Engineering, Networking Systems

Sharif University of Technology

B.Sc. in Electrical Engineering, Communication Systems

Internship at bebop Inc.

Back-end engineer working on developing a low latency data store.

RA at Stanford Information Networks Group (SING)

Diverse projects from cloud computing and graphical simulations to full duplex radio.

Internship at Cisco Systems

Software engineer at Wireless Networking Business Unit (WNBU).

Teaching Experience

Selected Projects

Course Assistant in CS344C, Cloud Simulation Systems.

RA at Advanced Communications Research Institute (ACRI)

Research in power estimation and coding techniques for CDMA systems

Janus: centralized MAC protocol for full duplex radio that realizes double capacity.

Predicting x86 Runtime: supervised learning algorithms to predict serialized x86 programs runtime.

Packet Classification in Presence of Wildcard: scalable, memory efficient, software-based algorithm.

Nimbus: cloud computing framework for fast data analytics and HPC applications. (nimbus.stanford.edu).

OpenFlow Controller for DCell: simulating DCell topology for data centers using Mininet OpenFlow controller.

Papers

O. Mashayekhi, H. Qu, C. Shah, P. Levis "Scalable, Fast Cloud Computing with Execution Templates", arXiv:1606.01972 [cs.DC], 2016

- O. Mashayekhi, C. Shah, H. Qu, P. Levis "Distributed Graphical Simulation in the Cloud", arXiv:1606.01966 [cs.DC], 2016
- H. Qu, O. Mashayekhi, D. Terei, P. Levis, "Canary: A Scheduling Architecture for High Performance Cloud Computing", Stanford CSTR 2016-01, 2016.
- J. Y. Kim, O. Mashayekhi, H. Qu, M. Kazandjieva, and P. Levis, "Janus: A Novel MAC Protocol for Full Duplex Radio", Stanford CSTR 2013-02, 2013.
- O. Mashayekhi, and F. Marvasti, "Uniquely Decodable Codes with Fast Decoder for Overloaded Synchronous CDMA Systems", IEEE Transactions on Communication, vol. 60, no. 11, pp. 3145-3149, November 2012.

Patents

O. Mashayekhi, and F. Marvasti, "Uniquely Decodable Codes and Decoder for Overloaded Synchronous CDMA Systems", U.S. patent application no. 13,082,084, April 7/2011.

Computer Skills

Programming Languages: C++, C, Java, Python, JavaScript, Shell script, Ruby, PHP, Assembly.

Systems and Softwares: Apache Spark, Naiad, Mininet, MATLAB, MATHCAD

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> Winter 2013 - Present Fall 2011 - Spring 2013

Stanford, CA

Winter 2013 - Present

Tehran, Iran

Fall 2007 - Spring 2011

Los Altos, CA

Summer 2015

Stanford University

Fall 2011 - Present

San Jose, CA

Summer 2012

Stanford University

Spring 2013

Sharif University

Spring 2009 - Summer 2011

Honors and Awards

• Recipient of 2-year Stanford Graduate Fellowship (Cisco Systems Fellow)	2013-2015
\bullet Ranked $\bf 15^{th}(/135)$ in the EE Qualifying Examination, Stanford University.	Winter 2013
\bullet Ranked $2^{\rm nd}$ in the EE Depart., Comm. branch, Sharif University of Technology.	Class 2007-2011
• Second Winner of the "Bests Undergraduate Thesis Award", Sharif University of Technology.	2011
• Bronze medalist of Iran National Mathematics Olympiad.	2006
• Ranked 46 th in university entrance exam among more than 300,000 students.	2007
• Member of the "Iranian National Elite Foundation".	2007-2011

Extracurricular Activities

Social Ballroom Dancing, Playing Tennis, Golfing, Swimming, Travelling.