

Omid Mashayekhi

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Education

Stanford University (expected graduation: June 2017)

Stanford, CA

Ph.D. in Electrical Engineering, Cloud Computing

Winter 2013 - Present

Ph.D. Minor in Computer Science, Systems Track

Winter 2013 - Present

M.Sc. in Electrical Engineering, Networking Systems

Fall 2011 - Spring 2013

Sharif University of Technology

Tehran, Iran

B.Sc. in Electrical Engineering, Communication Systems

Fall 2007 - Spring 2011

Experience

Internship at bebop Inc.

Los Altos, CA

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

Summer 2015

RA at Stanford Information Networks Group (SING)

Stanford University

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

Fall 2011 - Present

Internship at Cisco Systems

San Jose, CA

Software engineer at Wireless Networking Business Unit (WNBU).

Summer 2012

Teaching Experience

Stanford University

Course Assistant in CS344C, Cloud Simulation Systems.

Spring 2013

RA at Advanced Communications Research Institute (ACRI)

Sharif University

Research in power estimation and coding techniques for CDMA systems

Spring 2009 - Summer 2011

Selected Projects

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

Janus Project: 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.

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.

Honors and Awards

- Recipient of 2-year **Stanford Graduate Fellowship** (Cisco Systems Fellow) 2013-2015
- **Ranked 15th** (/135) in the EE Qualifying Examination, Stanford University. Winter 2013

- **Ranked 2nd** 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 46th** in university entrance exam among more than 300,000 students. *2007*
- Member of the "Iranian National Elite Foundation". *2007-2011*

Computer Skills

Programming Languages: C, C++, Java, Python, JavaScript, PHP, Ruby, Assembly, VHDL, CUPL.

Simulation Softwares: Mininet, MATLAB, MATHCAD, Simulink, ORCAD, PSpice, Quartus II, Protel, Proteus.

Extracurricular Activities

Social Ballroom Dancing, Swimming, Playing Tennis, Travelling, Going to Movies.