

POOYAN BEHNAMGHADER

Department of Computer Science, University of Southern California
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RESEARCH INTERESTS

- ◆ Software Architecture Recovery, Software Repository Mining
- ◆ Distributed Systems, Cloud Computing

EDUCATION

PhD Student, Computer Science

Fall 2013 – Present

- ◆ University of Southern California, Los Angeles, CA, U.S.A.
 - Advisor: Professor Nenad Medvidović

Bachelor of Science, Computer Engineering

Fall 2008 – Spring 2013

- ◆ University of Tehran, Tehran, Iran
 - GPA: 18.42 (of 20) Ranked 1st

Diploma, Mathematics and Physics

Fall 2004 – Spring 2008

- ◆ Allameh-Helli, Tehran, Iran
 - GPA: 19.53 (of 20)

RESEARCH EXPERIENCES

Department of Computer Science, University of Southern California, USA

◆ Research Assistant of Prof. N. Medvidović

Fall 2013 – Present

- Extending and improving ARCADE, a software workbench that employs a suite of architecture-recovery techniques and metrics for different aspects of architectural change
- Developing a toolset to use cloud computing in order to semi-automatically run large-scale software architecture recovery analyses on the history of systems in software repositories
- Improving Mahjong, a distributed software system that uses idle cycles on remote but networked computers to solve NP-complete problems

School of Computer and Communication Science, EPFL, Switzerland

◆ Research Assistant of Prof. C. Petitpierre

Summer 2012

- Developing a DSL using Xtext framework for generating Android Interfaces
- Developing a compiler using Xtext for compiling Xtend templates
- Developing a parser using JavaCC parser generator for parsing Xtext files

School of Electrical and Computer Engineering, University of Tehran, Iran

◆ Research Assistant of Dr. F. Ghassemi

Fall 2012 – Summer 2013

- Providing a state space generator for process terms of Restricted Broadcast Process Theory (RBPT) extended with abstract data types, a formal framework for specification and verification of Mobile Ad-hoc Networks, by translating the specifications to ML

School of Mechanical Engineering, University of Tehran, Iran

◆ Research Assistant of Prof. M. Raisee

Summer 2011 – Fall 2012

- Developing numerical solvers using OpenFoam CFD software package for the problem of “*Fluid Dynamics Modeling of Advanced Oxidation Process in UV-H₂O₂ Photoreactors*”

NOTABLE HONORS AND AWARDS

- ◆ **Provost's PhD Fellowship** for four years from the **University of Southern California** 2013
 - Also offered fellowships and/or research assistantships from UT Austin, U Illinois, Georgia Tech, UC San Diego, U Toronto, and EPFL
- ◆ Winner of the **Faculty of Engineering (FOE)** from the University of Tehran 2012
- ◆ Accepted into the **EPFL** competitive internship program granted with full scholarship 2012
- ◆ **Ranked 3rd** in the 16th Iran National **University Students' Olympiad** in Computer Eng. 2011
 - Member of Iran's **National Elites Foundation** and received multiple grants
 - Qualified to pursue graduate studies in **any Iranian university** with full scholarship
- ◆ **11th Place** in the 12th Regional Contest of **ACM ICPC** in Asia region, Tehran site 2010
- ◆ **Top 0.1%** of the nationwide entrance exam of Iranian universities 2008
 - Received a **Faculty of Engineering Scholarship** as an exceptional student

PUBLICATIONS

- ◆ Duc Le*, **Pooyan Behnamghader*** (co-first author), Joshua Garcia, Daniel Link, Arman Shahbazian and Nenad Medvidovic. "An Empirical Study of Architectural Change in Open-Source Software Systems." In *Proceedings of the 12th Working Conference on Mining Software Repositories (MSR 2015)*, Florence, Italy, May 2015.
- ◆ Sonal Mahajan, Bailan Li, **Pooyan Behnamghader**, William G. J. Halfond. "Using Visual Symptoms for Debugging Presentation Failures in Web Applications." In *Proceedings of the 9th IEEE International Conference on Software Testing, Verification and Validation (ICST 2016)*, Chicago, USA, April 2016.

TEACHING EXPERIENCES

School of Electrical and Computer Engineering, University of Tehran, Iran

- ◆ **Teaching Assistant** in the following courses:
 - System Analysis and Design Spring 2012, Spring 2013
 - Software Engineering Fall 2012
 - Programming Languages Fall 2012
 - Design and Analysis of Algorithms Spring 2012
 - Advance Programming Fall 2009

ACTIVITIES

Department of Computer Science, University of Southern California, USA

- ◆ Board Member (President): **PhD Student Committee** Fall 2015 – Present
- ◆ Board Member (Officer): **PhD Student Committee** Spring 2014 – Spring 2014

Thornton School of Music, University of Southern California, USA

- ◆ Singer: **Apollo Men's Chorus** Fall 2014 – Spring 2015

School of Electrical and Computer Engineering, University of Tehran, Iran

- ◆ Board Member (Secretary): **ACM Student Chapter** Fall 2010 – Spring 2011
- ◆ Board Member (Secretary): **Representatives Community** Spring 2009 – Spring 2010