POOYAN BEHNAMGHADER

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RESEARCH INTERESTS

Software Engineering and Formal Methods (especially in Concurrent and Distributed Systems)
Programming Languages, Compiler Design, and Object-Oriented Systems
Computer Networks, Distributed Systems, and Security

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 (National Organization for Development of Exceptional Talents), Tehran, Iran
GPA: 19.53   (of 20)

NOTABLE HONORS AND AWARDS

Provost's PhD Fellowship for four years from the **University of Southern California**	2013
Offered an **MCD Fellowship** for three years from the **University of Texas at Austin**	2013
Offered an **Department Fellowship** from the **University of Illinois, Urbana-Champaign**	2013
Offered **RA Positions** from **Gatech, USCD** (Fellowship+RA)**, UToronto, and EPFL**	2013
Winner of the **Faculty of Engineering (FOE)** award for the **ranked 1st** students	2012
Accepted into the **EPFL** competitive internship program granted with full scholarship	2012
Top 0.5% of the nationwide entrance exam of Iranian universities for graduate studies	2012
Ranked 3rd in the 16th **Iran National University Students' Olympiad** in Computer Eng.	2011
Winner of the **Graduate Scholarship** award	2011
Member of **Iran's National Elites Foundation** and received multiple grants	2011
11th Place in the 12th Regional Contest of **ACM ICPC** in Asia region, Tehran site	2010
Received a **Faculty of Engineering Scholarship** as an exceptional student	2008
Top 0.1% of the nationwide entrance exam of Iranian universities	2008

INTERNSHIP EXPERIENCE

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

RESEARCH EXPERIENCE

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 **Dr. 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-*
  H_2O_2 *Photoreactors*"

TEACHING EXPERIENCE S

School of Electrical and Computer Engineering, University of Tehran, Iran
Teaching Assistant in the following courses:
- System Analysis and Design   Spring 2013
- Software Engineering   Fall 2012
- Programming Languages   Fall 2012
- System Analysis and Design   Spring 2012
- Design and Analysis of Algorithms   Spring 2012
- Advance Programming   Fall 2009

VOLUNTARY EXPERIENCE

School of Electrical and Computer Engineering, University of Tehran, Iran
- Organizer (secretary): **ACM Student Chapter**   2010 – 2011
  Responsible for managing ICPC contests, community sessions, conferences
  and celebrations
- Organizer (secretary): **Representatives Community**   2009 – 2010
  Responsible for managing course timetable, exam timetable, community
  sessions, and college celebrations