

Mohammad Raji

FULLNAME: Mohammad Reza Ahmadzadeh Raji | PHONE: +1 865 3871890
EMAIL: mahmadza@utk.edu | WEBPAGE: <http://web.eecs.utk.edu/~mahmadza/>
LINKEDIN: <http://www.linkedin.com/in/moh853> | GITHUB: <http://github.com/auxiliary>

EDUCATION

- 2014-Present **PhD in Data Visualization**, The University of Tennessee, Knoxville, (GPA: 3.92)
- 2012-2014 **Masters Degree in Software Engineering**, Razi University, Iran, GPA: 3.45 (1st rank)
Thesis: “Refactoring software packages with community detection while considering stability”
- 2008-2012 **Bachelors Degree in Software Engineering**, Razi University, Iran, GPA: 3.24 (3rd rank)
Thesis: “Converting a surface to a touchscreen using a Kinect sensor and Image Processing.”

WORK EXPERIENCE

- 2014-PRESENT | Graduate Research Assistant at The University of Tennessee, Knoxville, TN, USA
Designing data visualization systems for analyzing large spatio-temporal data and building computational models to enable high-level interaction with scientific datasets.
- SUMMER 2016 | Research Intern at National Center for Supercomputing Applications (NCSA), Urbana, Illinois, USA
Developed an automatic transfer function design technique for volume rendering using a deep neural network model. Developed an intelligent filtering method for analyzing temporal slices of volumetric data.
- SUMMER 2015 | Software Developer Intern at Survature Inc., Knoxville, TN, USA
Worked as a frontend web developer advancing the user interface components for Survature’s survey platform.
- 2013-2014 | Remote Web Developer at Creative Investment Technologies, Berkshire, UK
Developed an Email parser and dispatcher to automate the processing of feedback loop emails for all company products. Maintained legacy code and developed responsive web pages and email templates.
- 2009-2013 | Co-Founder, Pegahan Inc., Iran
Co-founded Pegahan (a startup specializing in creating virtual tours), and developed J2ME based 360° virtual applications.
- 2008-2012 | Teacher Assistant at Razi University, Iran
Teacher assistant for: Databases, Data Structures, Basic Programming, Advanced Programming and Programming Language Design.

LEADERSHIPS & EXTRACURRICULAR ACTIVITIES

- SUMMER 2015 | REU Mentor at CURENT, The University of Tennessee, Knoxville, TN, USA
Mentored and provided advice to undergraduate students in CURENT’s Large Scale Testbed team.
- 2011-2012 | President of the Computer Science Society at Razi University, Iran
Led and coordinated events, programming classes and ICPC practicing sessions in Razi University’s Computer Science Society.
- 2010-2014 | Co-Founder of Ferferreh, Iran
Co-founded Ferferreh, a non-profit organization, with the mission of promoting and popularizing open-source software as well as the software copyright law in Iran.

PUBLICATIONS

- Mohammad Raji**, Alok Hota, Robert Sisneros, Wei Gao, Jian Huang, “Simplified Exploration of Multivariate Time-Varying Ensemble Data”, Submitted to the *IEEE Transactions on Visualization and Computer Graphics*, 2016.
- John Duggan, **Mohammad Raji**, Blaise DeCotes, Jian Huang, Bradley Vander Zanden, “eCamp: Visualizing Student Flow Through University Curriculum”, Submitted to *The International Journal of Higher Education*, 2016.

Robert Sisneros, **Mohammad Raji**, Dave Bock and Mark Vanmoer, “Chasing Rainbows: A Color Theoretic Framework for Improving and Preserving Bad Colormaps”, In *Proceedings of the 12th International Symposium on Visual Computing*.

Vahid Soleimani, **Mohammad Reza Ahmadzadeh Raji** and Mohammad Ali Golshan, “Converting Every Surface to Touchscreen”, *7th Iranian IEEE Conference on Machine Vision and Image Processing*, University of Science and Technology, Tehran, Iran, 2011.

SCHOLARSHIPS AND CERTIFICATES

- 2014 EECS Department Excellence Fellowship, UTK, Knoxville, USA
- 2012 Outstanding Student Scholarship for a Master’s degree, Razi University, Iran
- 2010 Khwarizmi Award, 2nd place for ARMrayan Multimedia Mobile Content Management System, Tehran, Iran
- 2009 National Digital Media Fair, Honorable mention for 360 Virtual Tour software, Tehran, Iran
- 2009-2012 Outstanding Student Award, Razi University, Iran

RESEARCH INTERESTS

Large Data Analysis, Data Visualization, Parallel Computing, Deep Neural Networks, Software Refactoring.

SKILLS

- Fluent in: Python, C/C++, Javascript, Java
- Knowledgeable in: Spark, MPI, C#, Matlab, WebGL, D3.js, MySQL, PHP, Bash, Git, SVN
- Familiar with: CUDA, X10, Prolog, Android Development