
Objective

To apply an internship position at leading IT companies or organizations.

Research Interests

My research interest is software engineering with a primary goal to develop techniques and tools that can help in improving both software productivity and quality.

Education

- 2012.5–present **Ph.D.**, *North Carolina State University*, Raleigh, NC.
Under advising of Dr. Emerson Murphy-Hill
- 2009.8–2012.5 **M.S.**, *North Carolina State University*, Raleigh, NC, 3.9/4.00.
Under advising of Dr. Emerson Murphy-Hill.
- 2005.8–2009.5 **B.E.**, *Nankai University*, Tianjin, China, 87.52/100.
Under advising of Dr. Shusong Xing; Research Interest lies in Pattern Classification.

Research Projects

- **BeneFactor**: Although broadly available in major software development environments, refactoring tools are still underused. In this project, we developed a flexible refactoring tool called BeneFactor that has higher usability than conventional refactoring tools.
- **DyTa**: DyTa is short for dynamic symbolic execution guided by static verification results. In this project, we combine Microsoft Code Contracts and Microsoft Pex to build up a new tool named DyTa. It has less false positives comparing to using Code Contracts individually and high efficiency comparing to using Pex individually.

Publications

- [1] **Xi Ge**, Quinton L. DuBose, Emerson Murphy-Hill. Reconciling Manual and Automatic Refactoring. In *Proc. 34rd International Conference on Software Engineering (ICSE 2012)*, Zurich, Switzerland, June, 2012 (21%)
- [2] **Xi Ge**, Emerson Murphy-Hill. BeneFactor: a Flexible Refactoring Tool for Eclipse. In *Companion of ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2011), Demonstration*, Portland, Oregon, October, 2011
- [3] **Xi Ge**, Kunal Taneja, Tao Xie and Nikolai Tillmann. DyTa: Dynamic Symbolic Execution Guided with Static Verification Results. In *Proc. 33rd International Conference on Software Engineering (ICSE 2011), Demonstration*, Honolulu, Hawaii, May, 2011 (37%)

Talks

- 2011.11 **BeneFactor: a Flexible Refactoring Tool for Eclipse**, Raleigh, NC.
at Eclipse Demo Camp 2011

Working Experience

- 2011.8–Present **Research Assistant**, *NC state university*, Raleigh, NC.
Under advising of Dr. Emerson Murphy-Hill.
- 2010.5–2010.8 **IT Consultant Intern**, *State Department of Water Resources*, Shanxi Province, China.
Responsible for IT consulting service for an ongoing digital water resource management system.
- 2009.8–2011.5 **Teaching Assistant**, *NC state university*, Raleigh, NC.
Responsible for grading, advising and teaching various courses in the computer science department of NC State University.

Skills

Language	English, Chinese, Japanese	IDE/Tools	Eclipse, Ant, Microsoft Visual Studio, JUnit, jCUTE, Datapower, Pex
Operating System	Windows, Linux, Mac OS	Programming Language	Java, C#, J2EE, Visual C++, C, C++, SQL, Perl, Ruby, Python, XML, HTML, UML

Honors

- The 3rd place in Race of Grace 5k Marathon, Raleigh, NC, 2009
- The third place in men's 400 m free style swimming and the second place in men's 100 m breaststroke swimming, Nankai University, Tianjin, China, 2008
- The 2nd/2nd/3rd class scholarship in Nankai University, Tianjin, China, 2008/2007/2006
- The 1st prize in the National Math Tournament for High School Students, China, 2004

References

Dr. Emerson Murphy-Hill Assistant Professor Department of Computer Science NC State University Raleigh, NC Email: emerson@csc.ncsu.edu	Mr. Xiaodan Bai Chairman of the Board Water Industry Investment Co.,Ltd Department of Water Resources Shanxi, China Tel: +86-351-2020811
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Personal Details

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Personal Homepage: <http://www4.ncsu.edu/~xge/>
GRE score: 800(Q)+620(V)+3(AW) **TOEFL score:** 106
SIGSOFT Membership Number: 9101375