Titus Klinge

Iowa State University
Computer Science Department

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Education

2011-pres Ph.D. Computer Science

Iowa State University

Expected graduation: Spring 2016

2011 B.S. Computer Science

Iowa State University

Publications

Ellis, S. J., Henderson, E. R., Klinge, T. H., Lathrop, J. I., Lutz, J. H., Lutz, R. R., Mathur, D., and Miner, A. S. (2014). Automated Requirements Analysis for a Molecular Watchdog Timer. In *Proceedings of the 29th ACM/IEEE International Conference on Automated Software Engineering ASE 2014*, pages 767–778. IFIP TC2 Manfred Paul Award for Excellence in Software: Theory and Practice

Lutz, R. R., Lutz, J. H., Lathrop, J. I., Klinge, T. H., Mathur, D., Stull, D. M., Bergquist, T. G., and Henderson, E. R. (2012b). Requirements analysis for a product family of dna nanodevices. In *Proceedings of the Twentieth IEEE International Requirements Engineering Conference (RE 2012)*, pages 211–220

Lutz, R., Lutz, J., Lathrop, J., Klinge, T., Henderson, E., Mathur, D., and Sheasha, D. A. (2012a). Engineering and verifying requirements for programmable self-assembling nanomachines. In *Proceedings of the Thirty-Fourth International Conference on Software Engineering (ICSE 2012)*, pages 1361–1364

Professional Experience

Iowa State University, Graduate Research Assistant

Aug 2011 - Present

Responsible for the design of molecular algorithms and rigorous proofs of their correctness using mathematical analysis and automated tools

Iowa State University, Prospective Student Coordinator

Met with prospective high school students to discuss Iowa State's

Computer Science program

Aug 2011 - Dec 2013

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IBM, Extreme Blue Technical Intern

May 2010 - Aug 2010

Responsible for development of a code execution profiler and static code analysis tools for PL/X (an IBM language) using Java; also wrote a language parser using JavaCC in support of the above tools

Iowa State University, Undergraduate Research Assistant
Implemented concurrent counterparts of OO design patterns and
compared execution performance to sequential implementions in
popular open source projects

Jan 2010 - May 2010

Institute for Transportation, Student Programmer

May 2009 - May 2010

Developed a data management application using Java, Oracle, and $\rm PL/SQL$ for Iowa DOT lab technicians

Teaching Experience

Iowa State University, Graduate Teaching Assistant

Jan 2014 - May 2014

Wrote assignments and exams, taught recitations, and graded for an undergraduate algorithms course

Iowa State University, Instructor of Record

Oct 2013 - Oct 2013

Responsible for preparing curriculum and lecturing to students in a two-week discrete mathematics class

Iowa State University, Undergraduate Teaching Assistant

Aug 2010 - Dec 2010

Taught recitations and graded written documentation, oral presentations and final group projects in an undergraduate advanced programming tools class

Iowa State University, Undergraduate Teaching Assistant
Resposible for facilitating student lab sessions and writing automated grading tools for an undergraduate introduction to objectoriented programming class

Jan 2009 - May 2009

Honors and Awards

2014	Iowa State Teaching Excellence Award
2012	Robert Stewart Early Research Recognition Award
2011	Winner of Iowa State Game Development Competition (1st Place)

Last updated: July 22, 2015