Ghassan Misherghi

Objective

To create excellent software while indulging in the finest delicacies offered by my employer.

Experience

- *Software Engineer*, **Google Inc.**, May 2007–Present
- *Technical Scholar*, **Lawrence Livermore National Laboratory**, June 2006–March 2007
  Surveyed existing research in enforcing coding standards. Proposed and implemented an approach that translated the Rose project's intermediate representation into relations for conformance checking using Datalog queries. Demonstrated findings in several hour long presentations given to audiences including upper-level management.
- *Graduate Research Assistant*, **UC Davis**, September 2005–December 2006
  Investigated problem domains such as automated debugging, clone detection, and firewall verification. Proposed novel approaches to address minimization of failure-inducing input and optimization of firewall rule orderings. Analyzed the complexity and theoretical effectiveness of these approaches. Empirically evaluated the approaches. Presented results in talks and papers.
- *Graduate Teaching Assistant*, **UC Davis**, September 2004–June 2005
  Organized and presented new material for discussion sessions. Graded homeworks, projects, and tests.
- *Undergraduate Research Assistant*, **UC Davis**, Summers 2001–2003
  Actively participated in several research projects including: Truthsayer, a query authenticity checker for untrusted publishers; RedSocks, a socket layer fault tolerance technique; RandomStacks, kernel level buffer overflow mitigation through address space randomization; and μVM, a sensor development framework.
- *Summer Intern*, **Cisco Systems**, Summer 2000
  Researched new interfaces for consumer routers using the HTTP and UPnP protocols.

Publications

- Ghassan Misherghi and Zhendong Su. HDD: Hierarchical Delta Debugging. In *Proceedings of the 28th International Conference on Software Engineering*, pages 142–151. ACM Press, New York, NY, 2006. (9% acceptance)
- Lingxiao Jiang, Ghassan Misherghi, Zhendong Su, and Stéphane Glondu. Deckard: Scalable and Accurate Tree-based Detection of Code Clones. In *Proceedings of the 29th International Conference on Software Engineering*, pages 96–105. ACM Press, New York, NY, 2007. (15% acceptance)
- Ghassan Misherghi, Lihua Yuan, Chen-Nee Chuah, Zhendong Su, and Hao Chen. A General Framework for Evaluating Firewall Optimization Techniques. In preparation.

Education

- **University of California at Davis**
  M.S. Computer Science, June 2007
- **University of California at Davis**
  B.S. Computer Science, June 2004

Skills

- Proficient: Python, C/C++, Java, Bash
- Familiar: Perl, PHP, Ruby, Prolog, Haskell
- program analysis, socket programming, testing, program generation, distributed programming, SQL, Datalog, web application development
- HTML, XML, CSS, LaTeX
- Linux (any distribution, preferably Arch), OpenBSD, Mac OS X