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## Ilya Shlyakhter

Education

9/93-present Massachusetts Institute of Technology Cambridge, MA

- Ph.D. in Computer Science expected June 2003. GPA: 5.0/5.0.
  Thesis: automatic verification of algorithms and system designs.
- Master of Engineering in Computer Science, 2/99. GPA: 5.0/5.0.
- B.S. in Computer Science and B.S. in Mathematics, 6/97. GPA: 5.0/5.0.

Skills

Proficient in Java, C/C++, Lisp, Scheme; Linux and Windows. Comfortable with UML, Perl, CGI, XML, SQL, x86 assembly, WebL, Maple.

Experience

2/99-present **Software Design Group**, **MIT LCS** Cambridge, MA Research Assistant

- Developed tools for modeling and verifying systems and algorithms.
- Enabled discovery of errors in published peer-reviewed results.
- Greatly extended the range of analyzable problems.
- Improved problem specification language.
- Designed and supervised several student projects.

5/01–8/01 **Formal Methods Group, Bell Labs** Murray Hill, NJ *Consultant* 

- Added pointer analysis capabilities to FeaVer, a C program verifier.
- Enabled fine-grained automatic abstraction, improving performance.

5/00–11/00 **Monitoring Applications, Akamai** Cambridge, MA Software developer

- Improved robustness and extensibility of network monitoring tools.
- Extended real-time monitoring capabilities to new subsystems.

6/96–2/99 **Computer Graphics Group, MIT LCS** Cambridge, MA *Research Assistant* 

- Created a system for reconstructing 3D models of trees from photographs.
- Achieved automated photorealistic reconstruction.
- Co-authored efficient new algorithm for computing 3D visual hull.

**Publications** 

7 peer-reviewed publications (see http://ilya.cc).

**Awards** 

NSF Fellowship Honorable Mention.