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## Experience

**MIT CSAIL, Parallel and Distributed Operating Systems** 2001 - Present Cambridge, MA

- Thesis advisor: [M. Frans Kaashoek](#).
- Research focus: computer systems, especially security of large-scale decentralized Internet systems.
- Structured overlay routing using a social network to provide robustness against pseudonym attacks.
- [UIA](#): decentralized routing and naming in a zero-configuration, secure, ad-hoc network.
- [Alpaca](#): secure and flexible PKI based on a higher-order logical framework.
- Other work: distributed and dynamic compact routing for the Internet; coroutine-based asynchronous I/O programming framework; game theory, economics, mechanism design, and reputation in decentralized systems; distributed Web caching; RSA acceleration using a commodity GPU.
- Master's thesis: [SSL Splitting and Barnraising: Cooperative Caching with Authenticity Guarantees](#).
- Instructor, Computer Systems Engineering (6.033), 2003-2005.

**Permabit** 2001 Cambridge, MA

- Developed highly available, robust, secure, scalable data storage system based on commodity hardware.

**Microsoft Research** 2000 Redmond, WA

- Cryptographic protocol design for the I-Campus *Secure Successor to the MIT Card* project.

**SensAble Technologies, Inc.** 1999 Cambridge, MA

- R&D: hardware and software development for the PHANToM haptic interface.

**MIT AI Lab, Mathematics and Computation** 1998 Cambridge, MA

- Studied randomly generated amorphous computers. Advisors: Hal Abelson, Gerry Sussman.

## Education

**Massachusetts Institute of Technology** 1997 - Present Cambridge, MA

- Doctoral program in Computer Science, 2003 - present.
- M. Eng. and B.S. Electrical Engineering and Computer Science, June 2003.
- B.S. Mathematics (Minor in Physics), June 2001.
- 4.9 / 5.0 undergrad GPA, 5.0 / 5.0 grad GPA.
- Topics: algorithms, complexity, compilers, digital design, computer architecture, cryptography, software design, acoustics, probability, algebra, quantum+statistical physics, general relativity, economics.

**Cohasset High School** 1992 - 1997 Cohasset, MA

- Valedictorian, early graduation, Harvard Extension School, Center for Talented Youth (CTY).

## Societies

- MIT [Student Information Processing Board](#) (former Chair)
- [Eta Kappa Nu](#) (editor of *UG6*, 2000-2001)
- [Phi Beta Kappa](#)

## Skills

- Languages: Python, Haskell, C, C++ STL, Java, Perl, Javascript, LISP, Matlab, VHDL, Postscript, various assembly, SQL, XML, HTML, CSS, LaTeX, GLSL, LF, Intercal, French, Mandarin Chinese
- Unix development: Make, GCC, Subversion, svk, CVS, VIM, X11, testsuites, Debian, Solaris, etc.
- Network/system programming: TCP/IP, sockets, SSL/TLS, Kerberos, asynchronous, threads, load balancing, scheduling, consistency, kernels, compilers, JIT, VMM, RDBMS, DB-driven web apps, etc.
- Digital design: Xilinx FPGA development tools, use of oscilloscope, logic analyzer, datasheets, etc.
- Hobbies: bicycling, cooking, karate, SCUBA, travel, DDR, skydiving, urban subterranean exploration.