# David A Benjamin

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Present Address

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Permanent Address

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## Skills

Experienced with C++, C, Python, JavaScript, Java, OCaml, Scheme, SQL, Git revision control, Django, Linux usage and administration. Familiar with Perl, x86 assembly.

## Education

**Massachusetts Institute of Technology** — August 2008 – September 2013

Master of Engineering in Computer Science and Engineering awarded September 2013; Bachelor of Science in May 2012. Courses include 6.033 Computer Systems Engineering, 6.035 Computer Language Engineering, 6.828 Operating System Engineering, 6.837 Computer Graphics, and 6.858 Computer Systems Security. GPA: 5.0/5.0.

**Purdue University** — August 2005 – May 2008

Regularly attended undergraduate and graduate-level computer science courses at Purdue during high school. Courses included Algorithms, Data Structures, Operating Systems, Computer Graphics, Cryptography.

## Experience

**Open Source**

Adopted nspluginwrapper, an abandoned project to proxy NPAPI browser plugins for cross-architecture loading. Fixed race conditions and consolidated forks. Contributed to nacl-mounts, a library for emulating POSIX filesystem on Native Client. Also contributed heavily to hterm, JavaScript terminal emulator used in Google Chrome OS.

**Jane Street Capital** — June 2012 – August 2012

Software Intern. Implemented client for reliable multicast protocol over UDP. Improved hash table performance and explored effects of OCaml runtime and garbage collection on latency-sensitive applications.

**VMware** — June 2011 – August 2011

Interned with Development Infrastructure group. Wrote tool to manage internal toolchain. Brought git expertise, evaluated repository management systems, wrote git support for internal services, assisted in deployment.

**Google** — June 2010 – August 2010

Interned with Google Chrome. Improved SSL/TLS client authentication and key generation. Added UI feedback for certificate enrollment, refactored frontend. Fixed miscellaneous bugs.

**Ksplice, Inc. (now acquired by Oracle)** — October 2009 – February 2010

Interned at startup. Wrote web site and backend logging system for customer-facing service usage tracking tool.

**MIT Student Information Processing Board** — November 2009 – present

Member of SIPB, MIT's volunteer student computing group, in Fall 2009 for work on BarnOwl IM client in Perl and C, now a lead developer. Contributions include `ncurses`-based windowing toolkit. Started Webathena, an experiment to bring Kerberos to the web with a JavaScript client and cross-origin service ticket delegation.

**Akamai Technologies** — June 2009 – August 2009

Interned with Network Management Systems. Integrated configuration validation platform with logging system.

## Awards and Publications

- Recipient of the 2013 Harold L. Hazen Teaching Award at MIT
- Member of MIT team to ACM-ICPC International Collegiate Programming Contest, 2009
- *Private and Uncheatable Outsourcing of Algebraic Computations* in Privacy, Security and Trust 2008
- Gold medalist in International Olympiad in Informatics 2008, eighth place worldwide, two-time USA team member, 2008 USA Computing Olympiad National Co-Champion
- USA Mathematical Olympiad Winner 2008, Team Selection Test invitee, three-time training camp invitee