

# Aaron Macks

## Personal:

<REDACTED>

## Education:

Graduated Brandeis University, May 2002:  
Degree: MA in Computer Science  
Final GPA: 3.78/4.0

Graduated Magna cum Laude Brandeis University: May, 2001  
Degrees: BA with high honors in Computer Science and BA in Fine Arts  
Final GPA: 3.7/4.0

## Work Experience:

September 2008 – Present Harvard Business Review (Watertown, MA)  
Systems Architect

### **Responsibilities:**

- Led transition of in-house hosting environment to AWS cloud hosting, include >200 servers and >20 Oracle/MySQL databases
- Managed a 24x7 linux environment(180 servers), with supporting storage (NAS, Netpp and Sun 7000, and SAN, EMC Clariion cx3 and cx500) and networking technologies
- Managed and expanded multiple VMware ESX clusters,
- Developed inhouse reporting, inventory control and communications tools
- Developed and managed internal and external performance monitoring for systems, applications and web-servers

### **Awards and Citations:**

- July 2009: Honorable Mention “One Enterprise Award” (Enterprise)
- 9-2011,9-2013,7-2015, etc.: Spotlight award (Departmental)

August 2004-September 2008 TechTarget, Inc. (Needham, Ma)  
Sr. System and Network Administrator

### **Responsibilities:**

- Maintained and expanded a 24/7 Linux/Solaris environment, along with supporting network and SAN technologies
- Managed hardware, both inventory and deployment, and OS, for 120 servers, including VMWare virtual servers.
- Developed in-house tools to manage rapid deployment/kickstart, automated inventory and data collection and analysis

### **Awards and Citations:**

- March, 2007: Product Group 1<sup>st</sup> Quarter award (Departmental)
- January 2008: TechTarget 2007 Excellence Award (Company-wide)

June 2002-August 2004 Freelance Consultant

### **Contracts:**

- Massasoit School and Granite Academy (Braintree, MA)
  - Maintained MacOS 9 and X workstations, and migrated services to a MacOS X server from various OS 9 servers.
  - Managed wired and wireless networking for both fixed and mobile clients
  - Assisted teachers and staff in transition from OS 9 to OS X
- Brandeis University Department of Computer Science
  - Maintained and upgraded SGI systems, including transitioning Indy's to Irix 6.5
  - Assisted in integrating Macintosh's running OS X into a UNIX network environment

November 2000-June 2002 Brandeis University (Waltham, MA):  
Department of Computer Science - System Administrator

### **Responsibilities:**

- Maintained and upgraded (software and hardware) the SGI systems in the department
- Repaired unusual Linux system errors
- Built and maintained an eight processor production Beowulf system

May-August 2001 University of Massachusetts Dartmouth (New Bedford, MA)  
Software Developer in the School for Marine Science and Technology

**Responsibilities:**

- Analyzed and modified a large(40,000 lines) Fortran program to compile it for a parallel SGI machine
- Wrote data analysis and generation software for both the input and output data of ocean simulation software
- Consulted on the maintenance of Alpha systems running Tru64

May-December 2000 SensAble Technologies (Woburn, MA) - QA intern

**Responsibilities:**

- Developed and executed tests on various facets of a software package in preparation for release
- Created a system for benchmarking both performance and usability of software

May-August 1999 National Institute of Standards and Technology (Gaithersburg, MD)  
Programming Intern in Division 839.1 (Analytical Chemistry)

**Responsibilities:**

- Wrote software(Visual C++) to perform noise reduction and analysis of large data sets for distribution to an international group of users

**Works in Progress:**

- Developing software for natural language parsing, specifically Akkadian verb [<http://www.wiglaf.org/akkadian/>]
- Developed integrated inventory control, CMS, CRM and messaging solution for retail store. Platform is MySQL accessed by Perl-base CGI.

**Publications:**

“Heterogeny in Beowulf Systems”, *Proceedings of the 16th Annual International Symposium on High Performance Computing Systems and Applications (HPCS'2002)* IEEE Press, 2002. p 42. [Poster presented at HPCS 2002].

“Parsing Akkadian Verbs with Prolog”, *Computational Approaches to Semitic Languages. ACL Publications, 2002. pp 3-8. [Paper presented at Association for Computational Linguistics 2002 Conference, July 11, 2002. ]* [<http://www.wiglaf.org/akkadian/acl02sub5102.doc.pdf>]

**General Skills:**

- Fluency with and administered various UNIX implementations: Linux(on Intel, PPC, Sun and HPPA hardware), Mac OSX , IRIX, Solaris, HP-UX, and Tru64
- Administering, building and designing Beowulf clusters
- Programming in Perl, Shell scripting, SQL, PHP, Java, C, Prolog, Matlab, C++, LISP, Scheme, Fortran90 and Pascal languages.