

ALEXANDRA ELLWOOD

Current Address

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Contact Information

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SKILLS

Experience programming in C, C++, Objective-C, PHP, and Perl using Macintosh and UNIX development tools including CVS, Subversion, gcc, gdb, Make, Xcode, and Interface Builder. Familiarity with Macintosh and UNIX APIs including Carbon, Cocoa, Core Foundation, Mach-IPC, POSIX, BSD Sockets, GSSAPI, Kerberos 4 and 5. Experience creating AJAX web applications using HTML, XHTML, CSS, Javascript, jQuery, PHP and Freemarker. Able to quickly learn new programming languages and APIs.

EXPERIENCE MIT Information Services and Technology

Cambridge, MA

2009 - present. User Experience Engineer for Infrastructure Software Development and Architecture (ISDA). Participated in the design and implementation of AJAX web applications in Java, Freemarker, PHP and Javascript including a list management application (MIT Groups Manager), a financial reporting tool (RAFT) and a learning management system gradebook tool (Stellar Gradebook). Worked with MIT's Adaptive Technology Information Center (ATIC) to provide accessibility features for zoom and screen reader technologies using WAI-ARIA standards and custom Javascript.

2007 - 2008. Analyst Programmer for the MIT Kerberos Consortium. Participated in the design and implementation of Kerberos for Macintosh (KfM) for Mac OS X. Worked with Apple, Inc. to include KfM in Mac OS X Leopard (10.5) and Snow Leopard (10.6). Release engineer and lead developer for KfM versions 6.0 (Leopard), and 6.5 (Snow Leopard). Designed and implemented the cross-platform Kerberos Identity Management API (KIMAPI) to replace the Mac OS X-specific Kerberos Login API (KLL).

1997 - 2007. Analyst Programmer for the MIT Kerberos Development Team. Participated in the design and implementation of Kerberos for Macintosh (KfM) for Mac OS 8, 9 and X. Worked with Apple, Inc. to include KfM in Mac OS X Puma (10.1) through Tiger (10.4). Release engineer and lead developer for KfM versions 4.5 (Jaguar), 5.0 (Panther), and 5.5 (Tiger). Designed and implemented Cocoa user interfaces for ticket acquisition (KerberosAgent) and ticket management (Kerberos.app). Assisted in the design of several Kerberos APIs including the Kerberos Login Library (KLL) and Credentials Cache API (CCAPI). Created SocketsLib, a lightweight BSD sockets shared library based on the Open Transport networking API.

1993 - 1997. Student Programmer for the Athena Development Team. Designed a secure networked distributed printing system for use in the Athena Computing Environment. Designed and implemented KLPR, a Kerberized printing client for the Macintosh. Updated MIT's Macintosh BSD compatibility libraries to use the Code Fragment Manager. Worked on MacDiscuss, a Macintosh client for an online forum system named Discuss which was developed at MIT.

MIT Media Lab

Cambridge, MA

1996 - 1997. Research Assistant for the Opera of the Future group working on the Brain Opera project. Wrote QuickTime tools to generate effects for video sequences and fixed bugs in the Windows NT control software for the Baton instrument.

EDUCATION**Massachusetts Institute of Technology**

Cambridge, MA

1992 - 1997. Received a Masters of Engineering degree and a Bachelors of Science degree in Electrical Engineering and Computer Science in June 1997. GPA 4.7/5.0.

HONORS

Winner of the MacHax Group's Best Hack Contest in 2000 for "DockStrip" and 1998 for "AsciiMac" with Miro Jurisic. Received the David A. Chanen Writing Award for "A Problem Encountered with Partial URLs in the World Wide Web". Lettered in Structure and Interpretation of Computer Programs (6.001) and Signals and Systems (6.003).