Alex Hioreanu

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HIGHLIGHTS OF QUALIFICATIONS

- Senior developer experienced in Unix systems and Web applications programming.
- Experience managing large legacy codebases and designing multi-tier distributed Web services.
- Current environments: C, C++, Python and JavaScript using Linux and Solaris.
- Past environments: Java, Perl, PHP, Objective C, Lisp variants, PostScript, assembly (IA-32 and SPARC V8); Mac OS X and Windows systems programming.
- Experienced systems manager/"reliability engineer" running systems spanning from the SunOS 4 pizza box under someone's desk to multi-thousand node Web services clusters.

WORK EXPERIENCE

- Software Engineer, Google.com (AdSense)
  January 2010–Present

  - *Developed and maintained the HTTP server* that delivers Google AdSense, Mobile, AdExchange and display ads. Owner of large legacy C++ codebase written to by hundreds of developers. Pager-carrier and team's production go-to person.
  - *Re-designed and re-wrote* eight year-old HTTP ad delivery platform. Exercised careful refactoring, unit- and integration-testing. Developed APIs to shield client teams from multi-threading issues and to minimize code interdependencies.

- Site Reliability Engineer, Google.com (AdSense)
  September 2007–January 2010

  - *Carried pager* responsible for multi-billion-dollar revenue ads services. Solved problems fast to avoid losing thousands of dollars per minute. Coordinated emergency response for multiple large outages.
  - *Improved monitoring and management* of multi thousand-node serving clusters, using Python, JavaScript and domain-specific languages. Engineered systems to avoid postmortem-worthy outages.

- Applications Programmer, The University of Chicago (Networking Services and Information Technology)
  October 2004–August 2007

  - *Applications programming in Java and Perl* for University's identity/account management system. Integrated additional University units into central account system; dismantled legacy authentication systems and implemented LDAP and Active Directory synchronization for single sign-on; migrated mail system to Mirapoint and wrote mail account provisioning system.
  - *Systems programming in C, Perl and Java.* Wrote SMTP software, a RADIUS gateway, a library implementation of the "Admind" Mirapoint administration protocol, IMAP synchronization and analysis tools, an SFTP protocol implementation and a Windows GINA.
  - *Systems administration of 28000-user services.* Responsible (on-call 24/7) for OpenLDAP-based directory service, Mirapoint-based mail service, BIND-based DNS service, Xythos-based WebDAV service and the F5 BIG-IP load balancers in front of these services; designed all or portions of these systems.

- Assistant Manager of Information Services, The University of Chicago (Residence Halls and Commons)
  August 1999–October 2004

  - *Programming in Unix, Windows and Mac OS X environments.* Designed and implemented departmental database applications in PHP a network login system (Win32 C, Mac OS Objective C, Bourne, Perl), a pay-for-print kiosk system (C, C++, Perl, Bourne, PostScript), and programs to automate administration of laboratory computers.
  - *Administration of Unix servers* supporting Windows and Mac OS clients. Responsible for five central servers and 15-20 building print servers. Provided multiuser virtual Web hosting services, database services, mail services for 50 staff, print and file services for 2600 residents.
  - *Technical support* for administrative and support staff. On-call for 24/7 staff shifts.
  - *Supervision and support* of Residential Computing student staff.

EDUCATION

- Bachelor's of Science in Computer Science
  The University of Chicago, June 2002
  Dean's List (1999, 2002)

- Incomplete studies toward M.B.A.
  The University of Chicago Booth School of Business, 2007

MISCELLANEOUS

- Personal projects have included: an X11 window manager, a Unix-like kernel for the IA-32 architecture, a Windows network print driver to connect to Unix-based LPR servers.
- U.S. citizen; native speaker of English and Romanian with knowledge of French and Spanish.
- Capable of heavy lifting; handy with a screwdriver.