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R. Andrew Bailey

Objective

Seeking a position in Software Architecture or Engineering, specializing in very large distributed Unix systems.

Clearances

DoD Top Secret/SSBI, active, read out 3/23/2013.

Employment/Experience

1999 - 2013, Akamai Technologies, Cambridge, MA/Reston, VA
Senior Software Architect
- Managed a team of 13 developers responsible for delivering Akamai's managed CDN service (GCDS) to the United States Department of Defense.
- Developed extensions to BIND9 to allow CDN operation in environments with centralized DNS.
- Lead developer on Starbucks/iTunes in-store audio streaming and iheartradio.com mp3 streaming projects.
- Developed software and tools for operation of the Akamai CDN's deployment of +150,000 physical servers.
- Inventor of Akamai's patented remote operating system installation methodology.

1995 - 1999, Marshall University Computer Center, Huntington, WV
Senior Systems Programmer
- Oversaw design and installation of the University-wide Windows NT infrastructure, supporting over 30,000 users on several campuses. Development of systems to provide automated mass client installations.

Qualifications

- 20 years experience programming, principally Python, C/C++, Go, Java and Perl, with an emphasis on quality through test-driven development.
- Tools development for very large server deployments.
- Multiprocess/Multithreaded Unix system programming with sockets, pthreads, Posix message queues, etc.
- Extensive, packet-level experience with TCP/IP, focused on DNS and HTTP protocols and packet capture/analysis with libpcap and Dnet.
- Security experience with PKI (generic x509 and DOD CAC) and SSL (Openssl and Gcrypt).
- Extensive experience with the GNU toolchain, GCC, GNU Make, GNU Autoconf. Some experience with MSVC toolchain.
- Extensive RDBMS programming experience with Oracle, Postgresql, DB2 and Mysql.
- Release management with Perforce and git.

Education

1993 - 2002 Marshall University Huntington, WV
Regents Bachelor of Arts, Cum Laude
Emphasis on Computer Science and Software Development
Deferred completion after accepting senior position at Marshall in 1995. Completed remaining credits at Harvard University Summer and Extension schools in Cambridge, MA.

References
Available on request.

Revised 2013/07/25