

JOHN HILLIAR

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OBJECTIVE

General resume, verbose description of recent positions.

EXPERIENCE

HITACHI, HITACHI DATA SYSTEMS: Waltham, MA

Specialist, Software Development Engineer July 2009 – Present

HCAP (Hitachi Content Archival Platform) product engineer.

EMC CORPORATION, CELERRA SOFTWARE DEVELOPMENT: Hopkinton, MA

Principal Software Design Engineer May 2008 – July 2009

D.A.R.T. embedded file server operating system. Served as a feature leader, created Microsoft Project Plan to plan and track international development of a software release. Implemented some NFS security modifications needed to close a customer deal. Worked on software development of a file system component for Windows kernel device driver which was also compiled into our propriety embedded OS. Created VMWare server setup for compilation machine, made one physical machine available as five build machines.

EMC CORPORATION, CENTERA RESEARCH AND ADVANCED DEVELOPMENT: Hopkinton, MA

Principal Software Design Engineer January 2005 – May 2008

Prototyped and implemented a re-architecture of the CAS product line. One of two lead architects in an advanced development group re-architecting the Centera product line.

Took leadership in setting up software development process. This re-architecture was written in C++ and includes the data path, daemon infrastructure, and management. Worked on the protocol data path. Wrote an asynchronous threading infrastructure, job scheduler, and statistics framework. Wrote the management infrastructure. Wrote an HTTP server from scratch that handled the WebUI and the remote CLI. Setup automated testing infrastructure running daily on all branches, 32bit and 64bit, with full web reporting, accessible for running by all developers on project. Also automated daily performance measurements on our software. Automated the official builds of our software which were conditionally released based on the results of the automated testing.

Handled all Clariion backend setup and configuration, NAS setup and configuration, RPM installers for our datapath software, and the installer framework for entire system.

Setup a VMWare server to allow us to transition to 64bit before equipment was available for the entire group.

EMC CORPORATION, CELERRA SOFTWARE DEVELOPMENT: Hopkinton, MA

Senior Software Design Engineer June 1999 – January 2005

Design and development of embedded network storage operating system on a clustered file server and Linux system management software. Handled RPC management of embedded file server. Reworked HTTP server to be used for management purposes. Handled management client rewrite to work over HTTP. Created XML client and server software on the management host and the embedded file server. Wrote management software to allow Timefinder/FS to automatically grow and shrink filesystems when synchronizing or restoring. Handled the NFS mount and export code on the embedded file server. Wrote an internal tool to allow global searching of the bug database which was a useful feature not present in the bug tracking system.

NMFS – invented and prototyped the Nested Mount File System which became a product feature.

RLL – solved Row Level Locking problem in management database which helped with concurrency issues in management operations. I presented this at an architectural off-site and helped as a team member with the implementation.

CCMD - Celerra Common Message Definition, took the initiative to write a white paper in 2004 detailing how to

unify messaging between four different systems (DART written in C++, Control Station written in Eiffel, WebUI written in Java, and our customer-facing documentation). I wrote the functional and design specifications and helped with the early implementation.

MACXML – I designed and fully implemented management over HTTP encoded in XML. This solved many product issues during a critical time of management scalability.

Eiffel-to-C stack translator – I wrote a translator to handle reversing a C stack back to higher-level Eiffel.

NORTHEASTERN UNIVERSITY BOSTON, MA

Part-time Faculty Member, January 2000 - Present

Teach C++ and Unix courses in graduate program (see www.hilliar.com), not as active since starting my M.B.A.

SKILLS

C, C++, Eiffel, some Java, LAMP dynamic website development, UNIX utilities (awk, sed, make, gdb, perl, shell scripts, emacs, CVS), Assembly, Visual Studio, Visual Basic, Fortran, Pascal, Matlab

EDUCATION

BABSON COLLEGE

M.B.A., Expected June 2010

NORTHEASTERN UNIVERSITY

M.S. Computer Engineering, June 1999

Research assistant working on head mounted optical displays, image quality software, and multithreaded image acquisition software.

LEHIGH UNIVERSITY

B.S. Computer Engineering, June 1997