

Charles Albrecht
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SKILLS

Management of version control systems
Build and Release Management
Database design, programming and administration
System and server administration and analysis

EDUCATION

Master of Science, University of Colorado, Boulder, Colorado
Major: Telecommunications (Interdisciplinary Telecommunications Program)
Bachelor of Arts, Cornell University, Ithaca, New York
Majors: Mathematics
Physics — Concentration: Astronomy

SOFTWARE EXPERIENCE

OS: UNIX (Solaris, HP/UX, AIX, Mac OS X et al.), Linux, Windows XP/2003
RDBMS: SQL (Oracle, Sybase, PostgreSQL, MS SQL Server, MySQL), 4D
Language: Java, Perl, C, C++, ant
CMS: Perforce, Subversion, CVS

WORK EXPERIENCE — CURRENT

Release Engineering Manager

11/2007 - present

Pearson, School Systems group
Rancho Cordova, California

Managed the Release and Configuration Management Team, distributed over multiple locations. Instituted policies and toolsets in support of iterative agile development using Scrum. Focused SCM procedures around a stable mainline model for branching, integrations and merges. Standardized build and release notifications around collaborative toolsets. Managed the queueing and scheduling of manual builds for 6-10 parallel projects on average. Documented existing and proposed procedures for application lifecycle management contexts.

Environment: Java 5 EE, 4D, Perl, ant, Oracle, Sybase, PostgreSQL, MySQL, Perforce, CVS, Mac OS X, Windows Server, InstallShield MultiPlatform, InstallAnywhere, Jira, Bugzilla, Bamboo, Fisheye, Crucible, Greenhopper

Senior Release Engineer

6/2006 - 10/2007

Pearson, School Systems group
Folsom, California

Managed version control systems for distributed groups of development teams for PowerSchool and SMS. Managed the build systems and performed coherent iterative builds for testing and customer qualification. Implemented Bamboo continuous integration server for rapid identification of unit test failures. Developed deployment systems to provide improved district and state-focused customizations. Implemented updated installer framework using InstallAnywhere. Assisted in the technical implementation of migrations from Bugzilla to Jira and from CVS to Perforce. Mentored junior developers in best practices related to software engineering and product development cycles.

Environment: J2EE, Java 5 EE, 4D, Perl 5, C++, ant, Oracle, Sybase, PostgreSQL, MySQL, Perforce, Subversion, CVS, Mac OS X, Windows Server 2003, InstallShield MultiPlatform, InstallAnywhere, Jira, Bugzilla, Bamboo, Cruise Control

Senior Software Engineer

7/2003 - 5/2006

Apple Computer, PowerSchool division
Folsom, California

Designed, implemented and delivered enhancements, primarily to the scheduling and attendance components of the PowerSchool Student Information System through participation in cross-functional groups. Designed and implemented real-time walk-in scheduling component for the PowerSchool SIS. Provided support for version control system management. Developed management tools to support the build processes and systems. Mentored junior developers in best practices related to software engineering and product development cycles.

Environment: J2EE, Java 5 EE, 4D, Perl 5, C++, ant, Sybase, PostgreSQL, CVS, Subversion, Mac OS X, Windows 2003, HTML, CSS, AJAX

WORK EXPERIENCE — PRIOR

Lead Developer

4/2001 – 7/2003

Euonymic Solutions
Denver, Colorado

Provided clients with support for network and database issues. Designed and delivered solutions based on pertinent industry standards.

- *(V-Hold Systems, Boulder, Colorado — two years)*
Provided systems maintenance and support for Unix-based web development and deployment e-commerce servers.
Environment: apache, sendmail, TLS, SSL, Perl, PHP, ipfw, WebDAV, Dreamweaver, Mac OS X Server
- *(Digital Retirement Solutions, Longmont, Colorado — five months)*
Specified and developed code libraries for delivering financial account information from the corporate website.
Environment: 4D, ObjectTools, XML, QIF, WebStar, NetLink
- *(Dr. Rene Oubre, DC, P.C., Littleton, Colorado — four months)*
Provided systems maintenance and support for medical office network.
Environment: Windows XP, Outlook Express, EZ-Bis
- *(Wilkinson & Co., Seattle, Washington — ongoing)*
Maintained DNS, email and web hosting services. Provided technical support for connectivity issues.
Environment: apache, sendmail, WebDAV, Dreamweaver, DNS/Bind, Mac OS X, Windows 2000
- *(Dr. Brian Hall, PhD, Granger, Indiana — two months)*
Rendered scientific visualizations of Lie groups for publication in a Mathematical Physics textbook.
Environment: POV-Ray, CYMK TIFF, Photoshop, Gimp, LaTeX, dvi
- *(National Technology Transfer, Englewood, Colorado — one month)*
Implemented a number of complex reports as part of a substantial upgrade of a mission-critical legacy application.
Environment: 4D, Foundation, Area List Pro
- *(Leadership Design Group, Parker, Colorado — four months)*
Provided small system support for all areas of office automation and Internet connectivity.
Environment: FileMaker Pro, MS Office, LAN, AppleTalk, TCP/IP, AOL/Compuserve, Mac OS

Consultant — Programmer Analyst

5/1999 – 3/2001

Denver, Colorado

Provided clients with support for network and database issues. Designed and delivered solutions based on pertinent industry standards.

- *(Simpson Housing Property Management via TekSystems, Denver, Colorado — three months)*
Designed and developed a flexible database reporting solution to extract data from an existing accounting database package, aggregate it according to business rules and present it to a reporting tool for presentation on the web.
Environment: MS SQL Server (Transact-SQL), MS Access, DTS, ODBC, Timberline Financials, Actuate eReporting Suite
- *(Qwest Dex via Analysts International, Englewood, Colorado — three years)*
Designed and programmed several modules to improve and refine a preexisting mission-critical database used by the Recycling group for all aspects of recycling efforts within a 14-state region. Worked with entities outside the group to define and implement interfaces to external data sources to enable processing payments, receiving invoices and synchronizing with the corporate website. Developed offline processing strategies to leverage the strengths of Microsoft Excel.
Environment: 4D, MVS, FTP, Oracle (PL/SQL), Sybase (Transact-SQL), VBA, Solaris, Cognos Powerhouse, Perl 5

Consultant — Programmer Analyst

1/1997 - 4/1999

Vero Beach, Florida

Provided clients with consultation on specific network and database issues. Designed and delivered solutions based on pertinent industry standards.

- *(Deep Sky Technologies, Vero Beach, Florida — one month)*
Programmed a user interface module to provide a familiar view of hierarchically complex relationships and manipulation of the objects they represent. Implemented the module within a database under development.
Environment: 4D, Mac OS, Windows 98/NT, Quark Xpress, Perl 5
- *(NASA Langley Research Center, Hampton, Virginia — seventeen months)*
Designed and programmed several mission-critical databases used by NASA LaRC's Internal Operations Group for workflow and budget planning. In conjunction with a small group of programmers, interpreted and refined project specifications and consulted with management personnel to define and improve the processes by which workflow and budget decisions are made.
Environment: Sybase (Transact-SQL), Oracle (PL/SQL), Solaris, sed, awk, Perl 5, C, Crystal Reports, Brio Query, 4D

Programmer

8/1995 - 12/1996

AOL Productions South
Vero Beach, Florida

Designed, programmed and maintained interactive online publishing solutions involving large data sets, both on the web and within AOL's proprietary Pageman environment. Designed and implemented LAN migration to switched Ethernet. Implemented secure dialup access. Supervised Unix systems administration tasks.

Environment: Perl 4, Perl 5, C, C++, Irix, PLWeb, HP-UX, 4D, Oracle (PL/SQL), HTML, Windows 95, Mac OS, FileMaker Pro

Computer Services Engineer

3/1993 - 8/1995

National Center for Atmospheric Research
Boulder, Colorado

Designed and programmed a relational database environment to track work-in-progress for a moderately-sized heterogeneous workgroup. Designed and supervised the installation of multiple network LANs. Implemented SNMP network management.

Supervised all network-related AutoCAD development. Authored HTML/CGI-perl forms environments as database interfaces.

Environment: Perl CGI, Perl 4, C, Mac OS, Sun OS, Irix, Solaris, Oracle (PL/SQL), HTML, AutoCAD, 4D, SNMP, FileMaker

Contract Computer Specialist

2/1991 - 3/1993

Aquent (formerly MacTemps)
Englewood, Colorado

2/1990 - 6/1990

Completed a number of short-term assignments involving programming, design, word processing and data entry.

Environment: AutoCAD, 4D, Mac OS, MS Windows, MS Excel, MS Word, Word Perfect, FileMaker Pro