

# Resume - Christopher B. Browne

## Christopher Browne

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## Objectives

I am interested in technical opportunities which would fall into one of the following categories:

- Unix System Administration

I have been working with Unix systems of many "flavors" since first exposure to Digital Ultrix in 1986, including, professionally, SCO, Digital OSF/1, Linux, HP/UX, AIX, and Solaris.

Having had a diverse set of academic involvements, I would also be comfortable with the idea of doing instruction/training with Unix or Linux.

- Unix Systems Integration

Long term exposure to various "flavours" of Unix, as well as to many of the scripting tools, and quite a number of applications would be helpful for connecting software particularly to ERP systems like SAP R/3

Professionally, I have scripted processes using Perl, Python, Korn shell, and the Bourne shell. I have also had exposure to many other scripting languages including Tcl and PHP.

- SAP Basis Administration

Preferable platforms would involve some flavor of Unix as the OS, and Oracle as the underlying DBMS.

Areas of special expertise are the CTS (Corrections and Transport System) change management system and the ABAP/4 programming language.

## Education

- Master of Science in Systems Science

University of Ottawa, Ottawa, Canada

- Bachelor of Mathematics, Joint Honours (dual majors) Co-op Chartered Accountancy and Computer Science

University of Waterloo, Waterloo, Canada

- Was certified by SAP America as a “Certified ABAP/4 Consultant” in after taking the SAP R/3 Partner Academy program in ABAP/4 Programming.
- Linux Professional Institute Certifications
  - LPI 101 - General Linux I
  - LPI 102 - General Linux II

## Unix Experience

Have used and administrated a wide variety of Unix systems since 1986, including Digital UNIX and Ultrix, HP/UX, Linux, Sun Solaris, IBM AIX, FreeBSD, SCO Unix.

Major responsibilities have included:

- Printer configuration and customization
- Oracle and R/3 installation and administration
- Design and operation of backup and recovery procedures
- Configuration of file sharing using NFS
- Hardware upgrades, notably including a migration of an R/3 system from one server to another
- Installation and configuration of HDS X Terminals
- Developed a faxing system in Perl under Digital UNIX and Linux that took reports generated by an SAP R/3 system in Postscript, post processed them to include a “document identifier,” and passed them on to a Unix-based fax product called FaxSr.
- Developed a “signature printing” system that reprocessed reports generated by an SAP R/3 system in both HP PCL and Adobe Postscript formats, inserting a signature bitmap into outgoing invoice documents.
- Built software in C under SCO UNIX for processing audit logs for medical log transmissions between medical laboratories. The code was actually run on the VAX/VMS platform.
- Collaborated on design and implementation of a personal finance package written in Perl called CBB. (<http://cbb.sourceforge.net/>) This package runs under the X Window System on a variety of UNIX platforms. I was also responsible for writing a command line interface version of CBB called cbbsh.

## Internet/Networking

- Collaborated on the design of an email filter system called Ifile (<http://www.ai.mit.edu/~jrennie/ifile/>) written in C and Perl. I did performance tuning by restructuring processing to substantially improve performance and reduce memory consumption.
- Have installed and used the Apache web server as well as the Java addition, Jserv, as well as proxy servers such as Squid and JunkBuster.

## Summary of Experience

### Database Administrator, Afilias Canada

Wrote data conversion software used to load registry information into EPP form for the transition of the .ORG Top Level Domain from Verisign Global Registry Service to the Public Interest Registry. The successful technical cutover of this conversion took place January 25 and 26, 2003.

Prepared data conversions for numerous additional “country code” top level domains that have come under management, moving registries from various forms into registries managed using the IETF standard Extensible Provisioning Protocol (EPP).

Produced SGML DocBook-based documentation and designed revenue management software particularly for management of deferred revenues for an Internet Registry.

Management of PostgreSQL replication systems; eRServer as well as Slony-I. This has also included developing extensions to Slony-I.

Major technologies in use include Linux, AIX, PostgreSQL, Perl, XML, TeX, amongst many others.

### Consultant, cbbrowne Computing Inc

Wrote data conversion software used to load registry information supplied by an outside agency into PostgreSQL in the form required by the EPP protocol to implement the transition of the .ORG Top Level Domain from Verisign Global Registry Service to the Public Interest Registry.

In addition, defined business requirements for a Deferred Revenue Recognition System to calculate deferred revenue on sales of domain registration services.

### Technical Reviewer, Wrox Press - August 2002 to November 2002

Detailed reviews of technical material for forthcoming books to be published by Wrox Press.

## **Author - January to June 2002**

Author: [ Professional Open Source Web Services], ISBN 1861007469, January to June 2002.

## **Consultant, Deloitte Consulting - August to October 2001**

ABAP/4 development, responding to trouble tickets in various SAP modules including SD, MM, HR, FI.

## **Developer, Cotest Software Design Corporation, Ottawa Ontario - June/July 2001**

Developed software to analyze binary file format data using Common Lisp on Linux to generate C++ code.

## **Consultant/Systems Engineer, Sabre Technology Solutions, Fort Worth, Texas**

March 1996 to March 2001

Sabre Inc. (<http://www.sabre.com>) was a subsidiary of AMR Corporation, (<http://www.amrcorp.com>) the parent company of American Airlines.

- Unix (mostly Solaris and IBM AIX) troubleshooting.
- Involved with R/3 ABAP/4 (<http://www.cbbrowne.com/info/abap4.html>) interface and report programming in the AM (Asset Management) and Internal Orders area for both American Airlines and Canadian Airlines.
- Designed and coded conversion software in ABAP/4 to translate and validate information for approximately 90,000 assets worth approximately \$20 Billion to be moved from an MVS legacy system into R/3 .
- Designed and coded in ABAP/4 interfaces to mainframe systems, and an email interface that alerts managers to asset spending that exceeds timing/spending constraints by forwarding messages to Novell GroupWise.
- The “AMR SAP Financials” system performed went live *on schedule* in October 1997.
- Designed and coded ABAP/4 utilities for the AMR SHARP (Payroll and HR) project to perform a variety of sorts of automated wage updates, including data conversions, daily processes, and interfaces to legacy systems.
- Administration of CTS (Corrections and Transport System); wrote various Korn Shell scripts to assist in moving transports between systems, as well as doing various CTS-related troubleshooting.
- “Phase 1A” of the SHARP system went live in September of 1998, handling HR and Payroll functions for approximately 20,000 employees of The Sabre Group and American Eagle.
- “Phase 1B” of the SHARP system went live in January 1999, handling adding in approximately 100,000 additional employees for AMR’s domestic US operations.

- “International Phase” of the SHARP system went live in October 1999, adding in further AMR international employees in 72 countries.

Duties here primarily involved managing the synchronization of domestic and international configuration and programs, which included analysis of transport information from SAP and Oracle tables, as well as analyzing transport logs on the Unix side.

- Administration of departmental Novell servers;
- Conversion of SHARP system from R/3 version 3.1H to version 4.6B took place in October 2000; I was responsible for managing installation of around 1500 change requests required for the upgrade, as well as for modifications of various ABAP/4 reports, interface programs, and automated batch processes.
- Created cryptographic functions in ABAP/4 that daily generate unique "PIN Numbers" for new AMR employees that are used to authenticate access to HR web information.
- Created a suite of tools in ABAP/4 to help manage authorization of the flow of change requests between the development and production environments.

## **Systems Engineer - SHL Systemhouse, Toronto, Ontario**

July 1993 thru March 1996

Note that SHL Systemhouse has since been acquired by EDS. (<http://www.eds.com/>)

Chief SHL technical resource for an R/3 installation which went into production in June, 1995.

Highlights include:

- Configured SAP R/3 version 2.1F under Digital OSF/1;
- Designed, installed and configured specialized printing services on SAP R/3 and Unix;
- Architected, designed, and implemented the integration of a UNIX-based client/server fax system with SAP R/3.
- Administered the R/3 CTS system (Corrections and Transport System).
- Assisted in installation of the SAP R/3 system within the Toronto SHL branch. This included disk partitioning and system configuration for the host HP/9000 under HP/UX version 9, as well as configuring the Motif-based X Window client software.
- Did maintenance and enhancement work on a number of custom business applications written in C using a dBase-compatible database system running under MS-DOS.

## **Activities:**

- Treasurer of NTLug - North Texas Linux Users Group (<http://www.ntlug.org/>), 1999 to 2001.

- Member of DFWUUG -- Dallas/Fort Worth UNIX Users Group (<http://www.dfwuug.org/>) - 1996-2001
- Editor of the national newsletter of the Canadian Operational Research Society, (<http://www.cors.ca/>) the "CORS Bulletin," 1994 to 1996.
- Member, Association for Computing Machinery (ACM) (<http://www.acm.org>) since 1986.

## Publications

- Master's Thesis: [Using Interior Point Methods to Solve the Multicommodity Network Flow Problem], accepted by the University of Ottawa.
- [Linux and Decentralized Development], published by the First Monday (<http://www.firstmonday.dk>) Internet-based peer-reviewed journal, March 1998.
- Review of [DocBook: The Definitive Guide], ([http://www.dfwuug.org/newsletters/2000/newsletter\\_0003.html](http://www.dfwuug.org/newsletters/2000/newsletter_0003.html)) for the DFW Unix User's Group.
- Coauthor of the book [Professional Linux Programming], published by Wrox Press, ISBN 1861003013.
- Cotranslator from French into English of the book [Development d'Applications avec Objectif CAML], 2001-2002.
- Coauthor of the book [Professional Open Source Web Services ], published by Wrox Press, ISBN 1861007469.