

Prokash Sinha.
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POSITION : A position in Internetworking and WEB related development.

GENERAL SUMMARY : Fifteen years of combined experiences in -
WEB server engineering of Netscape and Sun Internet Products.
GUI of MS Windows and Windows internals
OS/2 2.1 kernel (Virtual Memory Management) for 32-bit API
services
Communications software(TCP/IP, X.25, Ethernet etc.) of IBM
controllers
Word Processing Software and Printer Driver on a distributed
office system
UNIX systems software porting to AT&T 3B series
InstallShield programming for shrinkwrap Windows Product

EXPERIENCE

Windows Consultant
02/1997 to Present
HP, Sunnyvale, CA

Developed the kernel mode (NT4.0) device driver for a dual-ported RAM device-controller to communicate with single board computer for VOLVO vehicle communications. Developed a driver interface DLL for applications to detect devices and install driver onto the system. Implemented the overlapped and synchronous API's for application interface to the devices.
Did kernel mode debugging using WINDBG and SOFT-ICE for runtime and post-mortem analysis.

Ported and Enhanced the Volvo diagnostic and after sales software to Win32(UNICODE) for internationalization support. Implemented an Inter custom controls communication engine based on persistent data encoding scheme using LEX & YACC. Built mix-mode (AFXDLL and userdll) dlls for custom controls.

Internet Consultant
10/1996 to 02/1997
IBM, Mountain View, CA

Ported the Internet Transaction/Message Queuing software to AIX. Integrated the backend Banking network interface software to the frontend Web based Billing and Accounting software.

WEB Consultant
06/1996 to 10/1996
SUN Microsystem, Menlo Park, CA

Designed and implemented SSI and CGI feature of a multi-threaded, multi-network interfaced HTTP server. Designed and implemented configuration options for multiple network interfaces of the WEB server. Tested the security API's used for SSL support of the WEB server. Prototyped the IPC from Sun's Web server to Jeeves web server

for supporting JAVA servlets.

Internet Server Consultant
12/1995 to 05/1996
EIT, Menlo Park, CA

Designed and implemented an applet based remote Web server administration for Electronic Transaction Logging and verification using JAVA. Designed and implemented an Adapter to give C++ and JAVA interfaces to Netscape server API, Oracle WEB server API, and NSAPI for extending the server functionality. Designed and implemented server engine for common news messaging using C++ CGI programming and email messaging.

OS/2 consultant
03/1995 to 12/1995
Amdahl Inc, Sunnyvale, CA

Designed and implemented Login Process for distributed console system using UI class library. Designed and implemented console INIT process using multithreaded concurrent programming which launches and monitor replacement shell and console initialization processes. Asynchronous signal handling and timer attached process management is supported in the architecture. Architected the replacement shell which replace the WPS desktop to turnkey console system. Designed and developed file viewer using OOP and C++. Developed a configurable progress indicator which report several Client/Server processes status such as file transfer, remote installation etc.

Full-time employee
08/1994 to 03/1995
InfoSoft Inc, Cupertino, CA.
Sr. Software Engineer

Designed and implemented GUI application programs (Installation, Interface to DBMS, and PVCS builds) for shrink-wrap windows 3.1, NT and OS/2 2.1 Informix DBMS.
Project Lead of the Unix Informix Client/Server DBMS porting to Windows 3.1 and OS/2 (WARP). Worked on Kernel Debugging of various proprietary filesystems (EFS, XFS, MVFS) of Silicon graphics Inc on Single and Multiple processors machines.

Full-time employee
06/1988 to 07/1992
IBM Inc., Research Triangle Park, North Carolina.
Senior Associate Programmer

Developed OS/2 2.1 memory management 32bit API's for i386 processor. Owned storage models of IBM/37xx communication controllers which estimates storage requirement within 5% of actual. Analyzed flow-control that resulted in an IBM conference paper and 50% reduction of preallocated dynamic storage. Design and Developed an Object-oriented interface to socket and TLI interface.

08/1984 to 11/1985
SYNTREX Inc., Eatontown, New Jersey.
Senior Member of Technical Staff

Enhanced printer software of the company word processing product to support Epson and Olivetti line printers. Developed file systems recovery programs to fix damaged floppy disks of the word processing applications. Coded word processing interfaces to printer drivers.

02/1982 to 07/1984

A.T. & T., IS Lab, Sommerset, New Jersey.

Member of Programming Staff

Developed, as a systems programming team member, an automated user interface to port unix systems to A.T.&T 3B series computers and DEC LSI-11 single user system. Worked in PWB/UNIX to target the file system to several other hardware models.

11/1980 to 02/1982

Department of Health, State of New Jersey, Trenton, New Jersey.

Programmer III

Developed Fortran programs to generate health data for statistical analysis.

Generated data were used by Analysts for their SAS and APL programs.

COMPUTER SKILLS

Machines: IBM/PCs, SUN Spark, VAX, IBM/3090

Languages: C++, C, MASM, APL, Lisp, Pascal, and Fortran

Meta-Language: SHELL, Perl, REXX, Lex & Yacc, BAT

Programs: MFC/C++ 4.0/1.5 , GNU C/C++

Operating Systems: DOS-Window and OS/2 2.x in dual mode, SunOS,
AIX on RISC/6000, Unix on VAX/PDP11

ACADEMIC QUALIFICATION

Duke University, Durham, NC

Phd Level Course-Work in Computer Science, 1992-4

GPA: 3.6

Clemson University, Clemson, SC

Master of Mathematics, 1986-8

GPA: 3.4

PUBLICATIONS & AFFILIATION

Published and presented a paper on preallocation of buffers under dynamical flow control at the 1991 International Conference of IBM products.

Member of WWJ, IBM DEVCON, ORACLE SDK

LEGAL STATUS: U.S. citizen.

