

Vijay C. Bahirji
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CAREER OBJECTIVE

Seeking an Internship or Co-op position to utilize engineering skills and problem solving abilities.

EDUCATION

MS Computer Science
University of Texas at Dallas, TX Expected May 2010.

BE Computer Science & Engineering
Walchand College of Engineering, Shivaji University, India. August 2003-June 2006.
Academic- 71.82%.

RELEVANT COURSES

Advance Computer Networks, Principles of UNIX, Database Design.

TECHNICAL SKILLS

Programming Languages	C, C++, Perl, Scripting languages(BASH,AWK).
Web Technologies	HTML,XML.
Database System	MySql, Berkeley DB, Oracle.
Web Servers	Apache.
Tools	GDB,DBX,Purify,Microsoft Office.
Protocols	SMTP,IMAP,POP,LDAP.
Operating Systems	Sun Solaris, Linux, Microsoft Windows.

Work Experience

Software Engineer July 2006-Aug 2008
Persistent Systems Ltd. Pune, India. (www.persistentsys.com)

Worked on following projects:

1. Openwave PushEmail Server (Sun Solaris, C++):

The work concerns design and development of scalable multithreaded server which fetches mail from different sources and deposits it in the database to be pushed on subscribers mobile. The server then, transforms the mail in a way that fits the recipients mobile screen properties. PushEmail supports large subscriber set, and also has mail filtering capabilities. The product is integrated with directory support. The Berkeley database is used to manage the alarms and generate events, based on this the PushEmail engine sends request to remote ISP to fetch mails. The SSL (Secure Socket Layer) support enables secure communications.

2. Microsoft Mobile Service Protocol (MSP) Gateway (Sun Solaris, C++):

The MSP gateway server is mainly aimed at accessing the Windows Live services such as aill, Contacts etc. The gateway communicates to the MSN live server and fetches the required information which is in XML format and converts it into the form that end user understand.

Roles & Responsibilities:

I was involved in the design and development of the above two projects. Also did a performance testing for large number of subscribers. The language used for programming was C/C++ and the operating system as SUN SOLARIS.

ACADEMIC PROJECT

NetGuard: A Linux based firewall System

The project is aimed at developing a firewall for corporate organizations for security purpose. The system is a kernel level application that can be used to control the access for the services from in & out of corporate network. Firewall configurations are written to a file by user that the module reads at runtime. Module registers firewall hook structures with Linux kernel. Linux kernel makes a call to module when packet is detected by network interface and the module decides, based on the configuration set up by user, whether to accept or drop the packet.

PAPERS PRESENTED

“Cluster Computing” Research paper presented at MIT Aurangabad India. Won third prize. August 2004.

TECHNICAL PARTICIPATION

- Participated in National level programming contest at Shivaji University and won First prize. March 2006.
- Participated in National level web designing competition at J.H. Rasoni College of Engineering, Nagpur, India and won second prize. March 2006.

INTERESTS

Computer Network Security, Software product designing & development, Multithreaded Architectures, Linux Kernel Internals.

VISA STATUS

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REFERENCES

Available upon request.