

KEWAL B. KARAVINKOPPA

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Objective

Seeking Internship for Summer-2008 which would provide adequate exposure; enabling me to utilize and enhance my technical, professional and interpersonal skills.

Education

- **Indiana University** Bloomington, IN.,USA
Master of Science in Computer Science (GPA: 3.6) May 2009
- **Vishveswariah Technological University** Belgaum, INDIA
Bachelor of Science in Information Science (First Class with Distinction) June2004

Work Experience

- **University Information Technology Services** Bloomington, IN.,USA
Telecommunication Research Assistant August 2007 – Current
 - Utilized Veritas for regular backup, HFNETCHK for Windows patching, and Symantec Ghost for installation.
 - Installed and maintained the Apache(v2.2.2) web-server for configuration of Asterisk(v1.2.9.1).
- **SKY Mobile Media Pvt. Ltd.** Bangalore, INDIA
Software Engineer July 2006 – July 2007
 - Designed and developed Xml Document Manager (XDM) Client, for Mobile handheld device, which was used by various other software components like Push-to-talk Over Cellular, Presence, etc. for phone book service.
 - The client was a designed such that it could easily adapt to updated XML schema posted by the OMA ([Open Mobile Alliance](#)).
 - Work involved expertise in C++ and system programming.
 - Responsible for bug-fixing of the Email Client module.
- **Infosys Technologies Pvt. Ltd(Client: Nortel, Canada)** Bangalore, INDIA
Software Engineer April 2005- July 2006
 - Worked as a consultant for Nortel for WNMS (Wireless Network Management System) GEM (GSM Element Manager).
 - Designed and developed an extension of the Call Interception module following the specifications of China Market.
 - Work involved expertise in C++ and networking.
 - Maintained UNIX shell scripts for installation, up-gradation and un-installation of OMA software.
 - Responsible for bug-fixing of the Call Interception Module.

Technical Expertise

- **Programming Languages** : C, C++, Visual Basic, PERL, PHP, Java, LISP/Scheme
- **Web Development** : XML, XSLT, HTML, JavaScript
- **Databases** : Oracle, MySQL
- **Operating Systems** : Windows, UNIX (AIX, Solaris), LINUX(RedHat, Ubuntu)
- **Protocols** : SIP, RTP, RTSP
- **Miscellaneous** : Shell Scripting(bash), XPath(XML Path Language)

Graduate Course

- **Operating System Assignments** Fall 2007
Improved & augmented the operating system OS/161, by implementing system calls, scheduling algorithms, virtual memory management, synchronization primitives and file system support.
- **Fast Multiplication** Fall 2007
Implemented an modified version of Karatsuba algorithm for fast multiplication of very long integers achieving complexity of $O(n^{1.50})$.
- **Elements of Artificial Intelligence Assignments** Fall 2007
Implemented a general backpropagation algorithm for Neural Networks in Scheme. Search Based Problem solving using Min-Max Search with alpha-beta pruning for 8-puzzle, Connect-4 games with Case Base reasoning.

Leadership Experience and Professional Membership

- Co-founder: iLug-Belgaum
 - Co-founded the Linux Users Group – Belgaum in 2003 with a group of GNU enthusiasts.
 - Member of the organization committee of "GNUify meet", a yearly meet of the FSF-India group.
- ACM, IEEE Member