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Kulbir Saini

Career Objective

Seeking a career with a company that encourages freedom and innovation. My objective is to utilize the knowledge and experience that I gained for decision making and taking a leading role in the team.

Education

Degree	College	Percentage/CGPA
B.Tech in CSE	IIIT, Hyderabad	6.23/10
Senior Secondary	S.D. Model School (CBSE), Yamuna Nagar	89.2%
Secondary	S.D. Model School (CBSE), Yamuna Nagar	82.8%

Achievements

- **Google Summer of Code 2008** - Worked and successfully completed a self proposed project funded by Google Inc. and guided by The Fedora Project (Red Hat).

Experience

- **System Administrator** (December 2007 – December 2008)
- **Research Associate and System Administrator at BIRC** (November 2006 – December 2008)
- **Project Mentor** for an Open Source summer project at CVIT.
- **Project Mentor** for several ITWS projects.

Technical Skill Set

Programming Languages	GNU/C, GNU/C++
Scripting Languages	Python, Bash (Shell Scripting)
Operating Systems	GNU/Linux, Microsoft Windows XP
Programming Environments	Eclipse, Vim
Web Technologies	HTML,CSS,AJAX,PHP
Server Side Technologies	Squid, BIND, Apache, Iptables
Software Tools	GIMP, Wireshark, TCPDump, Git
CMS	Drupal, Wordpress
Database Technologies	MySQL

Projects

- **Intelligent Mirror**
This project is based on my own idea. IntelligentMirror is a python based squid plugin. It can be used to create a mirror of static HTTP/FTP content served from different mirrors. This facilitate the efficient usage of bandwidth and also reduces the average download time. This is especially useful in large networks. e.g. Universities and Organizations.
Advisor: Dr. Vikram Pudi **Team Size:** 2
Technologies Used: Python, Squid, Apache, XMLRPC
Website: <https://fedorahosted.org/intelligentmirror/>
License: GPL

- **Video Cache**

I developed this project out of my own interest. Video Cache is a Squid URL rewriter plugin written in Python for bandwidth optimization while browsing famous video sharing portals/websites like Youtube, Metacafe etc. It helps in saving bandwidth when a particular video is requested more than once from the same network/machine. It is being used by ISPs in Brazil, Lebanon, Serbia, Thailand etc.

Technologies Used: Python, Squid, Apache, XMLRPC

Website: <http://cachevideos.com/>

License: Videocache Commercial License

- **Online Video Advertisement System**

Working on a concept of Drupal based Online Advertisement System for serving channeled ads targeted for blogs and forums. The idea is to build an ad portal where advertisers can upload their self generated videos and customize the ads. The work is still in progress.

Technologies Used: Drupal, PHP, MySQL, FFMPEG, Flowplayer

License: GPL

- **IIIT Website Redesign**

Working on redesigning the IIIT's Main Website and websites for all the research centers from scratch using Drupal as CMS. My task is to take care of the technical aspects related to Drupal module development.

Advisor: Mrs. Kavita Vemuri, Mr. Jayadev, Dr. KS Rajan, Dr. Bipin Indurkha

Team Size: 3

Technologies Used: Drupal, PHP, MySQL

Minor Projects

- **Trojan Analysis**

Read and analyzed Trojan WIN32 AI and generated a signature as part of Systems and Network Security course.

Advisor: Dr. Bruhadeshwar Bezawada

Team Size: 1

Technologies Used: IDA Disassembler

- **Intranet Chat Service**

An Intranet Chat Service developed for Virtual Physics Lab students to discuss among themselves as well as the professor in the lab.

Advisor: Dr. Jayanthi Sivaswamy

Team Size: 2

Technologies Used: C++, Qt, Socket Programming

- **Unicode Mappings for Marathi True-Type Font**

Wrote Unicode mappings for Marathi True-Type Font Shree-Dev-0714 for Padma Firefox extension.

Advisor: Dr. CV Jawahar

Team Size: 1

Technologies Used: Javascript

Areas of Interest

- Open Source Development
- Computer Networks and System Administration
- Web Technologies.
- Blogging

Extra Curricular Activities

- I was the Technical Team Coordinator in Felicity 2008 (IIIT Hyderabad's Cultural Festival).
- I lead IIIT's Linux User Group.

Place:

Signature

Date: