

# Pradeep Nayak Udupi Kadbet

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## Objective

To solve real life problems using my programmatic and algorithmic skills and build products for the betterment of the society

## Experience

### Graduate Assistant - University of Southern California

October 2012 – Current

System Administrator at The Graduate School

### D E Shaw & Co - Member Technical Staff

July 2010 – July 2012

Building automation tools using Perl and Python. Developed SharePoint web parts for the company intranet. Developed Web Applications using HTML, CSS and JavaScript. Also wrote an iPad app for viewing conference room events and scheduling meetings.

### Cisco Systems - Intern

January 2010 – June 2010

Worked on the Cisco iOS and wrote test cases using Tcl for various routers

### Teaching Assistant

January 2009 – August 2009

I was hired as a teaching assistant for the Unix Systems Programming undergraduate course

## Education

### University of Southern California

Fall 2012 – Present (Graduating: 2014)

Major: MS Computer Science

Currently Enrolled Courses: Operating Systems, Introduction to Networks & Web Technologies

### P E S Institute Of Technology, Bangalore

September 2006 – June 2010

Bachelor of Engineering – Computer Science

GPA: 81.5 % /100

## Skills

- Programming Languages: C, Perl, Python, C++
- Web Technologies: HTML, CSS, PHP, JavaScript, jQuery
- Databases: MySQL, SQLite
- Operating Systems: Mac OS X, Linux (Ubuntu), Windows
- Mobile: Android SDK

## Projects

### Contextual Search Engine for educational video lectures

Duration: 9 months

The main vision of the project was to make videos as easy as text. To make videos search-able as one would search a text document. To skim through videos as one would skim through a text document. Our purpose was to make editing, re-purposing videos as easy as text. **Videos are the new text.**

### Text Messaging Portal for Test score notifications

Duration: 3 months

A messaging portal built using REST SMS api's used for notifying the test scores of the students. The test scores were formatted and sent as a text message to the registered mobile numbers with the portal.

## **Weenix Kernel**

**Duration: 3 months**

### **(i) Processes, Threads and Synchronization primitives**

Working on basic building blocks for the Weenix operating system: threads, processes, and synchronization primitives (mutexes) and the scheduler.

### **(ii) Implementation of the Virtual File System**

Working on building a common interface between the operating system kernel and the various underlying file systems (AFS and the S5FS file systems). As a part of the project various system calls like open, read, write, lookup, etc. were also implemented.

## **GupShup – A group chat application**

**Duration: 1 month**

A hobby project, which I pursued during summer. It's a simple group chat application built using node.js

## **Tambola**

**Duration: 1 month**

This is a console python application for playing the popular game tambola.

## **Other Activities**

- Held the position of Human Resources Operations Manager for the annual techno cultural fest Aatmatrisha held at P E S Institute Of Technology, Bangalore. The role involved people management and hospitality management.
- Technical Blogger at <http://pradeepnayak.in>
- Social coder on github: <http://github.com/pradeep1288>
- Photography