

# Praveen Sah

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## Professional Experience

<i>Software Development Engineer</i>	<b>Flipkart Internet Pvt. Ltd. Bangalore, India</b>	December 2012 – Present
	Worked with Order Management System team in Supply Chain Management Department. Developed and accommodated frequently changing business requirements. (Ruby on rails and Padrino). Developing Request Approval System which would take request from a user and the request will pass through approval cycle. Depending upon the approvers action at each level a request will be processed/declined.	
<i>Summer Intern</i>	<b>IIT Bombay, Mumbai, India</b>	June 2011 – August 2011
	After the completion of 6th semester, Worked as a summer intern at IIT Bombay where I developed an open source web conferencing tool for distance education using Flash Builder 4.5 under the guidance of prof. D B Phatak, CSE IIT Bombay. This is a web application for online teaching to enhance quality education in India. It was a Ministry of Human Resource and Development project. This application contains various features like video conferencing, whiteboard teaching and document sharing and slide show presentation, online chat, hand raise and doubt clearance modules too. Action script and mxml.	

## Self taken projects

Fliptrak (Order / Shipment tracking tool)	Developed an online tool to track an order / shipment. Use google MAP APIs to display the exact location of a shipment on google map.
	<i>Hackday @Flipkart</i>

## Education

2008–2012	<b>Indian Institute of Technology, Ropar.</b> B.Tech in Computer Science and Engineering	7.59/10
2006–2007	<b>St. Xavier's School, Hazaribagh</b> Senior Secondary	86.6%
1999-2005	<b>St. Xavier's School, Hazaribag</b> High School*	87.4%

\*Obtained cent percent marks in Mathematics

## Technical Skills

<b>Languages</b>	Ruby (Proficient), Java, Good Object Oriented Design Skills C,C#, C++(Beginner Level) , Python (Moderate)
<b>Libraries</b>	Ruby on Rails, Padrino, openGL, LAMP
<b>Others</b>	Git, Maven,
<b>IDEs</b>	IntelliJ, Rubymine, Eclipse, Netbeans
<b>Platforms</b>	Mac, Windows, Ubuntu

## Major Academic Projects

Pintos Operating System	As part of OS course, completed the first two modules of the Stanford Pintos Instructional Operating Systems project. Completed threads and user program functionality in it. Implemented alarm clock, priority escalation, semaphore, lock mechanism and system call support. <i>Operating Systems</i>
SAODV	Secure Ad-hoc on Demand Distance Vector Routing Protocol . AODV is a routing protocol for Mobile Ad-hoc Networks. Simulated the behaviour of malicious nodes (Black-hole and Gray-hole) in AODV using NS2(Network Simulator) . Improved security by preventing such nodes from the network using DES Cryptography. <i>Computer Networks</i>
MIPS32 Processor	Designed a subset of MIPS32 processor and implemented it in logisim. The project involved building a simple 32-bit processor using basic components of a Digital Circuit like flip-flops, logic gates, multiplexers, registers and memory. Implemented load word, store word, add, add immediate, subtract, subtract immediate, multiply, fast multiply instructions in it. <i>Computer Architecture</i>
DNS Cache	Designed an efficient data structure that can be used to answer DNS queries in a DNS Server fast. Used two Red Black Trees. My implementation won the best runtime in the department. <i>Data Structures and Algorithms</i>

## Referees

**Dr. Apurva Mudgal**  
Assistant Professor  
Dept. of Computer Science & Engineering  
Indian Institute of & Technology, Ropar  
e-mail: [apurva@iitrpr.ac.in](mailto:apurva@iitrpr.ac.in)  
*available on request*

**Prof. Nitin Auluck**  
Head of Department  
Dept. of Computer Science and Engineering  
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