PRASHANT H. PATIL

Computer Science & Engineering
Indian Institute of Technology Ropar

UG, Final year
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EDUCATION

Qualification	Institute	Place & Duration		Marks
B.Tech	Indian Institute of Technology Ropar	Punjab	2012 - Present	6.1/10
Intermediate/+2	Kendriya Vidyalaya Thane	Thane	2011	74%
Matriculation	D.A.V. Public School Thane	Thane	2009	86%

EXPERIENCE

Topper Learning (Network 18)   Internship - May '15 to July '15

- Designed and implemented dynamic question generation system for maths subject, earlier static questions had to be stored.

- Routine activities of the site www.topperlearning.com. Worked upon CakePHP framework for website related work.

- Setting up RabbitMQ queueing system in the site.

- JSON, jQuery, Ajax, CakePHP, MySQL.

ACADEMIC PROJECTS

LISP Interpreter (C++)
Implemented an interpreter for the functional language LISP, which takes input in LISP syntax and executes it.

NachOS Thread System (C++)
Implemented synchronization techniques for threads in NachOS simulator by adding support for locks and condition
variables using semaphores and sleep primitives, and built some synchronized data structures of table, bounded buffer etc.

Android Service to Respond to Incoming SMS with information from Server
Created a background service for Android, which responds to incoming SMS with information fetched from the server
accordingly. The server was deployed on a AWS EC2 instance to ensure sustainability.

Website Development
Created an Online Course Add-Drop Portal for students to add and drop their curriculum courses.
Created a website where people could post information regarding programming stuff, and also share, rate, and comment on others'.

Computer Vision
Implemented SIFT Keypoints detector, Harris corner detector, and a program for Hybrid Image formation from two distinct images.

Web Portal to Create and Use Server Side Virtual Machines
Created a web portal to enable users to register, login and create virtual machines of required parameters at the server side. It was
programmed using the Virtual Box Java API, and HTML and JSP were used for designing the portal.

Socket Programming (Java)
Created a multi-threaded socket program for server and client in which client could request the server for online services such
as converting the format of documents, image to pdf, etc.

TECHNICAL SKILLS

● **Programming Languages:** C/C++, JAVA

● **Web:** HTML, PHP, JSP, jQuery, Ajax, CakePHP, MySQL, PostgreSQL

● **Others**: MATLAB, Eclipse, Android Studio, ANTLR-3.5, Socket Programming

RELEVANT COURSES

Data Structures and Algorithms	Operating Systems	Database Management Systems
Computer Networks	Programming Paradigms	Computer Vision
Computer Architecture	Design of Algorithms	Logic and Computability