PRASHANT PATIL

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EDUCATION

Indian Institute of Technology Ropar   *July 2012-April 2016*
B.Tech. in *Computer Science & Engineering*
Courses: Data Structures and Algorithms, Contemporary Computing Platforms, Computer Networks, Computer Vision, Operating Systems, Database Management Systems, Computer Architecture, Logic and Computability.

EXPERIENCE

TopperLearning, Network 18   *May-July 2015*
Software Engineer Intern

· Designed and implemented dynamic question generation system for Maths subject.
· Set up RabbitMQ queuing system in the site. The queuing system would add data asynchronously to the database. This was done prior, to improve the notification module in the site.
· Routine activities of **www.topperlearning.com**. Worked on CakePHP MVC framework.

PROJECTS

B.Tech. Project   *Sept 2015-Present*
Dr. Nitin Auluck, IIT Ropar

· The effect of Task Duplication on the schedulability of real-time multiprocessor systems. Duplication of tasks would cut inter-processor communication cost between subtasks, resulting in efficient scheduling and more tasks meeting their deadlines.

Private IaaS Cloud Service
Dr. Balwinder Sodhi

· Created a portal to enable the users, register, login and create virtual machines of desired parameters on the cloud. The virtual machines created could be used via SSH. VirtualBox Java API was used.

Android Alarm App
Dr. Peter Junghyun Jun

· A location based Android Alarm app which rings depending upon the current location of the user. Features include notifying friends of the person in case he/she does not wake up within a given time.

Course Add/Drop portal
Dr. C.K. Narayanan

· Created an Online Course Add-Drop Portal for IIT Ropar curriculum courses. Also created a website where people could post information regarding programming stuff, and also share, rate, and comment on others'.

TECHNICAL SKILLS

Languages: C, C++, Java, Python *(familiar)*
Back-end: PHP, CakePHP (MVC architecture), RabbitMQ, jQuery, SQL
Tools: Android, Antlr, Matlab
IDE: User of Eclipse, Android Studio, Visual Studio

OTHER PROJECTS

Language Creation

· Created a language to control appliances in a building from a single machine. The lexer and parser for this language were created using ANTLR-3.5, a framework in Java to create grammars.

Android SMS Service

· Created a background service in Android, which responds to an SMS with relevant information fetched from a server deployed on an AWS EC2 instance.

Android Weather App

· Created an app in Android which provides weather information of a selected location for the next desired number of days. Openweathermap API was used to retrieve the information.

Socket Programming

· Created a multi-threaded socket program which allows clients to request the server for online services like converting format of documents, image to pdf, etc.

EXTRAS

Member of Coding club, and Literary Club, IIT Ropar.

Active on online programming sites. Cleared qualification round, **Google Code Jam** 2014.

2nd rank in college in **Microsoft Hackcon** 2014.

Interested in Data Structures, and Software Development.

References: Dr. Nitin Auluck, Head of Department, CSE, IIT Ropar.

Profiles: LinkedIn: https://www.linkedin.com/in/prashanthariompatil

Github: https://github.com/prashantmarshal