DevangBacharwar

Computer Science and Engineering, IIT Mandi

about

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programming

C++, C, Python, Ruby

frameworks

Rails, Django(basic)

development tools

Vim, Linux, Sublime
text, Git, Heroku,
Github

Education

since 2012	**B. Tech.** Computer Science and Engineering	Indian Institute of Technology, Mandi
	CGPA - 7.88(till IVth Semester)	
2012	**XIIth Std.**	John Milton Public School, Agra
	Percentage - 84.6%	
2010	**Xth Std.**	St. John's Sr. Sec. School, Firozabad
	GPA - 9.2	

Academic Projects

08-11 2013 **G-read** Database Practicum

Book rating, review and recommendation application developed under guidance of Dr. Sukumar Bhattacharya.

A book recommendation web application implemented using Rails framework and postgreSQL. Jaccard index was used for recommendation score. Application lets users rate and review books and get book recommendations. It also lets them follow other users and get feed based on their activity.

02-06 2014 **Autonomous Garbage collection bot** Design Practicum

Project done under Dr. Rajeev Kumar and Dr. Ajay Soni.

This project won first prize in openhouse. An autonomous garbage collecting bot developed for the purpose of cleaning parks and beaches. It used color deduction and edge detection algorithms running on raspberry pi for detecting garbage in uniform background.

11-12 2013 **Donate** Inter-IIT Techmeet, IIT Bombay

Application to track and index donation of things.

A web application developed for maintaining a database of donors and seekers implemented using Rails and SQLite, which can be used for different types of commodities.

07 2013 **Sell** Self-initiated

Application to track and bill transactions.

A web application used to track the items given by sellers and billing when they are sold.

Internships

07-08 2014 **Intern at M2C Solutions** m2ccraft.com

Android Application Development Intern

Contributed in development of an Android Application which used AWS Cognito, AWS IAM and Google Places API for Restaurant search, review and onsite review.

Research projects, papers published and patents

| 08-11 2013 | **Light in Shadow** | Inter-IIT Techmeet, IIT Kanpur |

Project to provide a energy efficient lighting solution mainly focused for slum areas.

An open source lighting solution using the bleach water bottle and LED assembly as a potential replacement for Electric Bulbs. It uses LEDs , solar panel and an LDR circuit which provides light for illuminating the bleach water bottle during night, which is done by sunlight during daytime.

Courses

IInd Semester Computation for Engineers, Linear Algebra

IIIrd Semester Data structures and Algorithms, Mathematical Foundation for Computer Science, Database Practicum

IVth Semester Advanced Data Structures and Algorithms

Vth Semester Computer Organization, Paradigms of Programming, Systems Practicum, Formal languages and Automata Theory, Computational Financial Modelling

Position of responsibility

since 08 2014 *Coordinator of Programme Management Group.*

02-06 2014 *Team Coordinator, Design Practicum.*

2013-14 *Control and Management Coordinator, Exodia'14, IIT Mandi's Techno-Cult fest.*

since 08 2013 *Coordinator of Debating Society.*

08-09 2013 *Publicity and Design Coordinator, Rann-Neeti '13*

Scholarships, Awards and Achievements

2013,2014 Represented IIT Mandi at Inter-IIT Techmeet for two consecutive years *[IIT Kanpur(2013), IIT Bombay(2014)]*

05 2014 Ist prize in Design Practicum.

10 2013 IIIrd prize in National competition Manthan organised by CAG

Extracurricular activities

Active member of literary society.

Active member of Programming club, ACM student chapter, Energy club, Electronics club.

Active member of Programme management group, Art geeks.

Active member of National Service Scheme(NSS), IIT Mandi.