Ritik Mathur

Curriculum Vitae

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Languages

English	**Fluent**	*Daily practice, all work performed in English*
Hindi	**Native**	*Mother Tongue*

Education

2013 **B.Tech, Computer Science and Enginnering**, *IIT Patna*, Patna.
CPI until Semester IV - 8.02

2012 **Secondary**, *DAV Public School*, Kota, *90.6%*.

2010 **Higher Secondary**, *Bikaner Boys School*, Bikaner, *9.8*.

Projects

Hostel Room Allocation System
○ WebApp based on Django and Python
○ Allows students of the institute to book their hostel room via graphical interface.
○ Allots by priority and preference based algorithm.
○ Designed Front-End using HTML5, CSS3, Bootstrap, JS, JSON, jQuery etc.

E-Voting
○ WebApp based on Django and Python.
○ Allows user to nominate themselves and cast vote to rimer controlled and secure ballot page.
○ Connected with sqlite3 database.
○ Designed whole Front-End and some did Back-End work.

CPU designing
○ Implemented 4-bit CPU.
○ Instruction set consisted of limited usual commands.
○ Used ALU, Registers and other basic gate chips.

Mobile Applications
○ Developed iOS applications using Swift.
○ Used UIKit, AVFoundation and various frameworks for implementation.

Skills

Languages C, Java, Swift, Ruby, Python, MIPS Assembly
Web Dev HTML, CSS, Javascript, Django, Ruby on Rails
Software Xcode, NetBeans, Autodesk Autocad, MATLAB, iMovie, Photoshop
OS Mac OS X, iOS, Linux, Android, Windows

Work Experience and Positions of Responsibilities

- Core Committee Member and Co-ordinator of Marketing and Sponsorship Committee of IIT-Patna's Annual Techno-Cultural Extravaganza Anwesha 2K16.
- Attended workshop on Network Management and Ethical Hacking organised by NetCamp in IIT-Patna.
- Enrolled as an NSS (National Social Service) volunteer in IIT Patna and did social work for two consecutive years.
- Worked as leading organiser of a event in Anwesha 2K15
- Worked as Volunteer under Creatives and Design, Media and Public Relations Committee for Anwesha 2K14.
- Qualified for the finale in 'Manthan', youth movement, among 1400 teams by proposing solution to critical challenges that India faces.
- Member of NJACK, Computer Science Club of IIT-Patna.

Interests

Disciplinary Web Applications, Mobile Applications, Designing, Softwares, APIs, Networking, Network Management, Natural Language Processing, Artificial Intelligence, Ethical Hacking, Operating Systems, Databases.
Others Chemistry, Biology, Circuits, Mechanics, Robotics, Gaming.

Courses Undertaken

Core Software Engineering; Object Oriented Programming and Data structures; Discrete Mathematics; Algorithms; Digital Design; Systems Programming; Computer Organization and Architecture, Formal Language and Automata, Operating Systems, Data Communications, Programming Languages.
Others Physics-I,II; Chemistry-I,II; Mathematics-I,II,III; Engineering Drawing; Electrical Sciences; Engineering Mechanics; Probability Theory and Random Processes; Signal System and Networks; Introduction to Computational Topology; Introduction to Microeconomics and Microeconomics.