

Vishu Goyal

B.Tech. Computer Science and Engineering
UG(IV Year I Semester)
Registration No: B.Tech./CSE/11114049/2015
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Indian Institute of Technology Roorkee

Area(s) of Interest: Algorithmic Design, Social Networks, Computer Vision, Machine Learning

| Educational Qualifications | Year | Board/Institution | CGPA* / % |
|----------------------------|------|---|-----------|
| B.Tech. 3rd Year | 2014 | Indian Institute of Technology, Roorkee | 9.354 |
| Twelfth | 2011 | Central Board Of Secondary Education (C.B.S.E.) | 89.4 |
| Tenth | 2009 | Central Board Of Secondary Education (C.B.S.E.) | 92.0 |

*on a scale of 10

INTERNSHIP INFORMATION

Advanced Technology Labs, Adobe Systems India

Context Sensitive Ad scheduling in Sports Stadiums using Image and Audio content analytics. (May 5 to July 25, 2014)

The project involved extracting out audience demographics and player's performance index using techniques of Computer vision and Natural language processing. A system which scheduled context sensitive Ads was developed. At the end of internship three patents were submitted for filing.

- (1) Non-rigid compound colored object detection.
- (2) Commentary analysis to judge a player's performance index.
- (3) Dynamic and Intelligent Ad board priority determination.

Friedrich-Alexander University of Erlangen-Nuremberg (FAU) and KTH Stockholm

Indo-European Winter Academy 2013 (December 9-15, 2013)

Attended the course "High Performance Computing with Applications in Electrical Engineering, Materials and Processes" and contributed to the technical sessions of the academy by delivering a seminar talk on the the topic "Architecture Of High Performance Computers".

PROJECTS

IBM Global Remote Mentoring

Automated Linux Package Testing (Nov 2013)

Made the RFC for the testing of 2 Linux packages (rkill and cpuspeed) and implemented them in Python for Autotest - open source linux testing framework.

Department of Computer Science and Engineering, IIT Roorkee

Social Network Analysis (Ongoing)

B.Tech Project which involves using techniques of Big Data and Visualization to extract useful information from social media.

Department of Computer Science and Engineering, IIT Roorkee

Analysis of different IPC modes in Multicore Operating Systems (May 2013)

Measured and compared performance in terms of time consumed by different IPC modes such as shared memory, message queues and socket based IPCs.

Shristi-2013, Annual Hobbies Club Fest of IIT Roorkee

Java and C++ IDE (March 2013)

Designed and Implemented an IDE in Java capable of compiling and executing C++ and Java codes. Both backend and frontend were coded using io, util and awt packages in Java.

IBM Global Remote Mentoring

Default Address Selection for IPv6 (Ongoing)

Implementation of IETF-RFC 6724 (default address selection) for IPv6 testing framework TAHI.

Cognizance-2013, Annual Tech Fest of IIT Roorkee

CogniConnect (Feb 2013)

Made the official android application for Cognizance-2013 which was launched on Google Play store (1000+ downloads).

SKILLS AND ACHIEVEMENTS

| | |
|---------------------------------|--|
| Computer Languages | Proficient: C/C++, Java, VHDL, HTML, SQL Basic: PHP, XML, Python |
| Software Packages | (i) Dev C++, Code Blocks, Net Beans, Eclipse, Microstation, Xilinx, Microsoft Office, Visual Studio, IDLE. (ii) LIBRARIES: OpenCV, Boost C++, Open Graph Drawing Framework (OGDF) |
| Academic Achievements | (i) Cleared all the 3 Indian ACM ICPC Onsite contests (Kanpur-2012, Amritapuri-2013, Kharagpur-2013). (ii) Won many Mathematics and Algorithmic Coding Contests : Inscription(NITK-Suratkal), CodeRush(IIT-Roorkee), Matrixed (IIT-Roorkee), Dementia (IIT-Mandi), Mindsweeper(IITM-Jabalpur). (iii) Secured 3rd rank in the Ideaz - The research paper presentation competition. (iv) Secured AIR 986 in IIT-JEE 2011. |
| Additional Courses Taken | Graph Theory, AI, UNIX Programming, Network Security, Operating System, Data Structures, Algorithms, Network Security, DBMS. |
| Languages Known | English (SRW) , Hindi (SRW) , Sanskrit (SRW) |

EXTRA CURRICULARS

Coordinator, Cognizance 2014 (Annual Tech-Fest, IIT Roorkee) (2014)

Coordinator and problem setter of Spotlight (participation of 100+) hosted by CS Department, IIT Roorkee.

Event Coordinator, iFest 2013 (Online Tech Fest, IIT Roorkee) (2013)

Coordinator as well as problem setter for Matrixed (participation of 800+) hosted by IEEE IITR student chapter.

National Service Scheme (NSS), IIT Roorkee (2012)

Volunteered Prerna (NSS initiative for free education) and Blood Donation Camp conducted by Himalayan Blood Bank.

Zonal level handball player (2007)

Honored by Directorate of Education for securing 3rd position in the zonal level in handball sport.

PERSONAL DETAILS

Father's Name: Ved Parkash Goyal

Date of Birth: Nov. 14, 1992

Gender: Male

Contact No: 9761022128

Category: General

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REFERENCES

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