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Third Year
Bachelor of Technology
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AREAS OF INTERESTS

Web Development, Networking, Data Structures and Algorithms, Reversing, Cryptography, Microprocessor, Operating Systems, Operations Research

INTERNSHIP

Google Summer of Code, 2014   **Summer 2014**
MediaWiki, Wikidata Web Annotator
- Researched on how gaps in the semantic web can be filled with help of resource available on internet
- Developed a browser plugin that enables user to annotate and create valid statements anywhere on internet and then save these statements on Wikidata with references and proofs.
- Developed underlying OAuth mechanism and bot that feed statements to Wikidata.
- Open Sourced at Github, link to repository with 4 sub projects, link to demo and proposal.
- PHP, JavaScript, Python, a pinch of Node.js and ShellScript were used to develop the project.
- Project had the highest number of mentors (5) in 2014.

Roorkee Delivers, 2013   **Summer 2013**
IIT Roorkee
- Cofounded a highly successful startup at IIT Roorkee that helps students to buy regular products at cheapest prices.
- Developed website for the initial phase of Roorkee Delivers.
- Supervised all the online orders made through the website.
- PHP, JavaScript were used to developed the website.

POSITION OF RESPONSIBILITY

Thomso, IIT Roorkee- Annual Cultural Festival   **June – October 2013**
Thomso Organizing Committee Member
- Responsible for all the sponsorship related opportunities and tasks that finally resulted in 60 lakhs (6 million Rs.) budget.
- Mentored a team of 20 members for contacting various organizations to collect sponsorship fund.
- Lead a team of 150 people responsible for security during festival, which actively take care of all the resources of the festival.
- Actively involved in publicizing the fest in various institutes and companies all around India by holding interactive sessions.
- Responsible for the development and deployment of Website for the festival.

SDSLabs, Programming Club, IITR   **2014-current**
Joint Secretary
- Responsible for management of lab's various resources and maintaining the curriculum of various function performed by lab.
- Represented lab in annual technical and cultural festival of Hobbies Club, Srishti- 2014, and further winning Hobbies Club trophy.
- Responsible for maintaining funds for lab and fulfilling basic requirements of member for their projects.
- Organized lectures on various topics ranging from networking to web development and conducted monthly competitions for coders on campus.

PROJECTS AND RESEARCH

Github Profile : apsdehal

Face Detection and Recognition   **February, 2014**
MATLAB   **Electrical Engineering Department**
- Developed an application that can recognize users based on the training data and thus can be used as safe password.
- Uses Principal Component Analysis and Eigen Faces concept for the recognition.
- Uses Harr Like Feature for face detection.
- Open Sourced.

Link: A PHP microframework   **June, 2014**
PHP   **Open Sourced**
- Developed a microframework library for PHP users that helps to build fast and minimal apps with rigid routing capabilities.
- Has been starred 257 times on Github.
- Used and modified by numerous projects. E.g. Roy, Link-Hack

Experiences: An alumni portal   **February, 2014 – current**
PHP, JavaScript   **SDSLabs**
- Developed an alumni portal for IIT Roorkee alumni, hosted at experiences.sdslabs.co.
- Project helps alumni to share their experiences at IITR and further guide their juniors about various things.
- Uses Google and Facebook OAuth for login.

Muzi: Web Music Player   **January 2014**
JavaScript, PHP   **SDSLabs**
- Redesigned the most used app (Muzi) in campus and automated the process of song addition to it.
- Has a collection of 1,20,000 songs from 12,000 artists
- Muzi receives about 2000 listens per day from the campus itself.
- Quite popular and relies heavily on JavaScript and HTML5.

Zap: Wikipedia to PPT   **June 2014**
Python   **Open-Sourced**
- Wrote a python parser that converts Wikipedia Articles into structured PPTs
- Quite popular among university students.
- Quite fast and provides option to select from various results.

Crunch: Muzi Mobile App   **March 2014**
JavaScript   **Open-Sourced**
- Developed an Android app that brings the fun of Muzi to tablets and phones.
- Developed using PhoneGap API for mobile app development.

Minor Projects:
- **Limelight:** Pleasing theme for Jekyll   **Jekyll, CSS**
- **Tornami:** Muzi's English Song download automation via torrents   **Node.js, ShellScript**
- **Muzier:** A scraper that regularly downloads Hindi songs   **Node.js, ShellScript**
- **jQuery Plugins:** jCart for shopping cart implementation and jCookie for easy cookie handling
- **OpenCode:** Pastebin like service used for sharing code snippets with unique links. **Backbone.js**
- **Play:** Internal DJ for lab, has queue system for songs   **Node.js**
- **Llama:** Multiple and easy access to SSH service   **Go**
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SCHOLASTIC ACHIEVEMENTS AND SCHOLARSHIP

- **All India Rank 1347** (99.7 percentile) in IIT-JEE 2012 among 4,80,000 candidates.
- **All India Rank 1435** (99.9 percentile) in AIEEE 2012 among AIEEE 2012
- Awarded **Chief Minister Talent Rise Scholarship** from Indian Government.

- Awarded **Silver Medal twice** in state level competition **Youth Empower Scheme**
- Achieved **Below 1000** twice in National Science Talent Search Examination

TECHNICAL SKILLS AND COURSES TAKEN

- **Programming Skills and Languages:** JavaScript, C++, PHP, Python, ShellScript, Node.js, Go, MATLAB, Assembly 8085
- **Relevant Courses Taken:** C++**:** EC101A**,** JavaScript, PHP**:** Lynda.com**,** MATLAB**:** EE-308**,** Computer Networks - University Of Washington on Coursera, Management Concepts and Practices, Technical Communication, Operations Research, Graph and Network Theory, Data Structures: MIT OpenWare
- **Softwares:** Git, Simulink, Photoshop, Microstation, Wireshark.

EXTRA CURRICULARS

- **National Cadet Corps** B certificate holder.
- Responsible for the on-campus publicity of **iFest 2012 - IITR**
- Regular Badminton player and selected for **Inter-IIT camp 2013**
- Coordinated as mess councillor in a team of 8, supervising a budget of 60,00,000 Rs per year.
- Responsible for Hospitality in Thomso-2012
- Won first prize in application section of Srishti – 2014, annual technical cultural festival, IITR
- Capture The Flag and Programming challenges (2011 - current): Actively participating in CTF competitions, ranked first in institute for backdoor 2014.