

**Amanpreet Singh**

Electrical Engineering
Indian Institute of Technology, Roorkee
me@apsdehal.in
Ph: 919045123824, 919816010241

EnrollmentNo:12115016

Third Year
Bachelor of Technology
DOB: 14 May 1994
Website: apsdehal.in

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](https://www.wikidata.org/) 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.

POSITION OF RESPONSIBILITY**SDSLabs, Programming Club, IITR****2014-current****Joint Secretary**

- Managing the activities and budget of software development section of IITR, <http://sdslabs.co>

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.
- Responsible for the development and deployment of Website for the festival.

PROJECTS AND RESEARCH**Github Profile : [apsdehal](https://github.com/apsdehal)****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 and receives about 2000 listens per day from the campus itself..

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.

Link: A PHP microframework PHP

June, 2014
[Open Sourced](#)

- Developed a microframework library for PHP users that helps to build fast and minimal apps with rigid routing capabilities. Github - 254 ★

Face Detection and Recognition MATLAB

February, 2014
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, Harr like features and Eigen Faces concept for the recognition, [Open Sourced](#).

Minor Projects:

- | | |
|---|-----------------------------|
| • Tornami: Muzi's English Song download automation via torrents | Node.js, ShellScript |
| • Konsoole: HTTP Log monitoring console with nCurses GUI, 56 ★ | Go |
| • Zap: Wikipedia to PPT parser, converts wikipedia pages to PPT files | Python |
| • Llama: Multiple and easy access to SSH service | Go |
| • Logger: Logging module for Go - Github 132★ | Go |
| • Play: Internal DJ for lab, has queue system for songs | Node.js |
| • Muzier: A scraper that regularly downloads Hindi songs | Node.js, ShellScript |
| • Limelight: Pleasing theme for Jekyll | Jekyll, CSS |
| • 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 | |
| • Roorkee Delivers: Developed website for roorkee delivers website | PHP, Javascript |

SCHOLASTIC ACHIEVEMENTS

- **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

TECHNICAL SKILLS AND COURSES TAKEN

- **Programming Skills and Languages:** JavaScript, PHP, Go, Python, Node.js, C++, MATLAB, ShellScript, Ruby, Assembly 8085
- **Softwares:** Git, Simulink, Photoshop, Microstation, Wireshark, GDB, IDA Pro, Metasploit