



## AMANPREET SINGH

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## OBJECTIVE

Seeking a challenging internship which provides an opportunity and a platform to work on a complete stack in the field of technology.

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## AREAS OF INTEREST

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

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## INTERNSHIP

### Google Summer of Code (Summer, 2014) MediaWiki, Wikidata Web Annotator

I researched with my mentors from Mediawiki to create a bookmarklet and extension for web browsers that enables users to create annotations from website and store them on Wikidata. Project was written using JavaScript, PHP and Python, is open sourced (<http://github.com/apsdehal/WAFBookmarklet>) and is available as [bookmarkelet](#)

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## POSITION OF RESPONSIBILITY

### SDSLabs, Programming Club, IITR (2013-current) Joint Secretary

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

### Thomso, IIT Roorkee- Annual Cultural Festival (Summer, 2013) Thomso Organizing Committee Member

I was responsible for all the sponsorship related opportunities and tasks that finally resulted in 60 lakhs (6 million Rs.) budget. I was also responsible for the development and deployment of website for the festival.

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## PROJECTS

### Academic Projects

#### Face Detection and Recognition (February, 2014)

This project was developed under Electrical Engineering Department using MATLAB. Application recognizes users based on the training data available and can be further implemented as a password system. Concepts used were Principal Component Analysis, Harr like features and Eigen Faces concept and was [open sourced](#).

### SDSLabs Projects

#### Muzi: Web Music Player (January, 2014)

Redesigned the most used app (Muzi) in campus and automated the process of song addition to it. Muzi has a collection of 120k songs from 12k artists and receives about 5k

listens per day from the campus itself. Project has been developed using Browserify, Jasmine, SoundManager, Grunt, Handlebars and PHP backend.

### **Experiences: An alumni relations portal (Summer, 2014)**

Developed an alumni portal for IIT Roorkee alumni, hosted at [experiences.sdslabs.co](http://experiences.sdslabs.co). Project helps alumni to share their experiences at IITR and further guide their juniors about various things.

### **Github Projects ([@apsdehal](#))**

#### **Link: A PHP microframework**

Developed a microframework library for PHP users that helps to build fast and minimal apps with rigid routing capabilities. It has 254 ★ on Github and is regularly used in small projects

#### **Tornami and Muzi.pk**

Muzi's song download automation via torrents and websites. Both are written in Node.js and uses shell bindings

#### **Konsoole**

HTTP Log monitoring console written in Go. It uses with nCurses for GUI. 66 ★ on Github

#### **Zap**

Wikipedia to PPT parser, converts wikipedia pages to PPT file. Written in Python

#### **Logger**

Logging module for Go. Used by Gophers around the world. 136 ★ on Github

#### **Play**

Internal DJ for SDS Labs, has queue system for songs. It plays songs from Muzi at regular intervals. It is developed in Node.js

#### **OpenCode (<http://code.apsdehal.in>)**

Pastebin like service used for sharing code snippets with unique links. It uses Backbone.js at frontend

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## **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

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## **TECHNICAL SKILLS**

### **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