

# Parag Gupta

## Contact:

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## Links:

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Twitter:// @darkhorcrux  
Spoj:// paraggupta  
Codechef:// paraggupta  
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## Skill Set:

OS	Linux, Windows, Mac OS X
Programming	C, C++, Python, Ruby, PHP
	Javascript, ARM-assembly
Frameworks	Node.js, Ruby on Rails, Web2py, Backbone.js
Miscellaneous	Mysql, Vim, Git, Sublime Text, AWS, Openstack, Wireshark, OpenGL, Eclipse

## Education

### Bachelor of Technology | Computer Science and Engineering

2010-2014

*International Institute of Information Technology-Hyderabad, India*

**GPA : 7.76 / 10**

Coursework: Data Structures, Algorithms, Operating Systems, Advanced Computer Networks, Compilers, Information Retrieval, Database Systems, Data mining, Compilers, Parallel Programming, Principles of Programming languages, Structured system analysis and design

### Senior Secondary | 12th Standard

2009-2010

*Morning Star HS School, Ratlam, India*

**Marks: 90.8/100**

## Experience

### Member of Technical Staff | Groupon, India

Jul 2014 - now

→ *Node.js, Backbone.js, Coffeescript, Mocha, A/B testing*

Working in Groupon Getaway's engineering team, to develop and maintain Getaways web application.

### Intern | Groupon, India

Jun 2013 - Jul 2013

→ *Ruby on Rails, Backbone.js, Bootstrap, Coffeescript, Rspec, Jasmine*

Developed a centralized issue-ticket management web application for customer service. The app supports localization and is used over 40+ countries.

### Intern | Aasaanpay Solutions, India

Mar 2013 - Apr 2013

→ AmazonAWS, Python, Infrastructure

Planned and set up PCI complaint payment infrastructure on cloud (AWS).

### Teaching Assistant | IIIT-Hyderabad

Responsible for taking labs, tutorials and doubt-solving sessions. Helped in correction of exam papers and assignments.

- Computer Networks

Dec 2013 - May 2014

- Information Technology Workshop

Jul 2013 - Dec 2013

- Computer System Organization

Dec 2012 - May 2013

- Structured Systems Analysis and Design

Jul 2012 - Dec 2012

### Cultural Secretary | IIIT-Hyderabad

Jul 2012- Jul 2013

- Spearheaded the team responsible for organising all the cultural events in IIIT-H.

- Student's contact point for anybody outside the university for cultural events, workshops, & competitions.

# Projects

## Study of Information leak using ICMP

Mentor: Shatrunjay Rawat

→ C, Python, pthreads, BSD Sockets, Security

(Team size: 2)

This research project aims to study the vulnerabilities of ICMP particularly its abuse to transfer data packets. Proposed solutions to mitigate the security loopholes associated.

## API addition in OpenStack Nova-Client

Mentor: Prasad Saripalli

→ Python, OpenStack, Cloud, libvirt, Virtualization

OpenStack is a Cloud operating system. Added an API in Nova-client of Openstack using libvirt to dynamically add/remove memory from live Virtual machines.

## Entity Based Opinion Mining from Blogs

Mentor: Vasudev Verma

→ Java, Sentiment Analysis, Opinion Mining, Entity Identification, Opinion Summary

(Team size: 3)

It attempts to identify objects being talked about in the blog and the opinion(sentiment) that the author expresses towards them which can further be summarized. The project is implementation of "Entity Centric Opinion Mining from Blogs" paper published in Coling-2012.

## Compiler Optimization Phase Sequence Search Engine

Mentor: Suresh Purini

→ Python, GCC, llvm, Hill Climbing algorithm, Heuristic search

It aims to find out optimal compilation phase sequence for llvm and gcc compilers irrespective of input and the program. It performed at par with -O2 optimization sequence of gcc compiler.

## Catchy

Self motivated

→ Node.js, Socket.io, Javascript, JQuery, HTML/CSS

This project aims to ease developers life by providing analysis tools for real time development logs.

## Wikipedia Search Engine

Mentor: Vasudev Verma

→ C++, Python, Information extraction, Tokenization, Stemming, Tf-idf

Supports multilevel indexes and field queries. Index-size is  $< 1/4^{th}$  and queries in  $< 1s$  for 40Gb dataset.

## Room Reservation Web System

Mentor: Y Raghu Reddy

→ PHP, HTML/CSS, Javascript, Mysql

Built, deployed and now maintaining the web app for room booking in IIIT-H. In use for almost 3 years now.

# Achievements

- Ranked in top-25 among 300+ teams consecutively for 3 years in ACM-ICPC, Asia Onsite Regionals.
- IIIT-Hyderabad *Dean's award* L-II and L-III for academic excellence. 2010-2011
- Special Commendation award for 'Promotion of Cultural and Sports activities' by IIIT-H.
- Rank 3316/1million in IIT-JEE and 2026/1.2million in AIEEE. 2010
- Our presentation 'BrainGain - Scheme for promoting research in India' was selected in top 100/1400 in CAG Manthan competition.

# Extra-Curricular

- As 'Member of Apex Body, IIIT-H', mentored 180+ new students during their early stay in the college, helping them in studies, living, food related issues. 2012-2013
- As a 'Cultural Advisor, IIIT-H', provided consults on cultural activities in the university. 2013-2014
- Founded IIIT-H's Dance Club, choreographed and taught many dance sequences, participated in inter-college dance competitions and organized workshops. 2011-2013
- Participated and organized various technical workshops, conferences and hackathons like Google Devfests, JSFoo, geeklist, IIIT-H's Hackfest, etc.
- Represented district under-14 cricket and swimming team.
- Special interest in parkour, chess, drawing and painting.