

Parag Gupta

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Date Of Birth : March 20, 1993

Education **Bachelor of Technology**, Computer Science and Engineering 2010-2014
International Institute of Information Technology - Hyderabad
CGPA : 7.76 / 10

Senior Secondary schooling , Class 12th 2009-2010
Morning Star Higher Secondary School, Ratlam , India
Percentage : 90.8 %

Interest Web development, Algorithms, Problem solving, Computer Networks, Data mining and information extraction.

Experience **Internships :**
• *Groupon India Private Limited* Summer 2013
→ *Ruby on Rails, Backbone.js , Bootstrap, Coffeescript, Mysql, HTML, CSS, Rspec and Jasmine unit testing tools*
Developed an internationalized and localized web application, internally used by the company over 40+ countries to enhance *customer relationship management*.
Developers team size: 4
• *Aasaanpay Solutions India Private Limited* Spring 2013
→ *Amazon AWS, Python, Android, Java, Infrastructure*
Setted-up PCI complaint infrastructure on cloud and developed user interface for the company's android application.

Teaching Assistant at *IIIT-Hyderabad*:
• Computer Networks Spring 2014
• IT Workshop Monsoon 2013
• Computer System Organization Spring 2013
• Structured Systems Analysis and Design Monsoon 2012

Major Projects **Risk-assessment of loan applications using Classification**
Mentor: [Kamalakar Karlapalem](#)
→ *Data mining, Classification, Weka, Python*
Built a classifier model to categorize loan applications according to its associated risk-factor, into different 'Loan Grades' and impose interest rates accordingly.

Information leak using ICMP protocol Mentor: [Shatrunjay Rawat](#)
→ *C, Python, pthreads, BSD Sockets, Security*
This project aims at transferring data packets using ICMP protocol. An ICMPv4-based chat application, ICMPv6-based chat application, trojan horse backdoor application and a security application was made for analysizing and studying the security loopholes associated with ICMP. (Team size: 2)

Entity Based Opinion Mining from BlogsMentor: [Vasudev Verma](#)→ *Java, Eclipse, Stanford NLP toolkit, Sentiment Analysis, Opinion Mining, Object Identification, Opinion Summary* (Team size: 2)

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. Based on "Entity Centric Opinion Mining from Blogs" published in Coling-2012.

Wikipedia Search EngineMentor: [Vasudev Verma](#)→ *CPP/C++ , Python, Bash script, Information extraction, XML, Tf-idf*

Designed a scalable and efficient wikipedia dataset search engine. It supports field queries for 5 fields: title, infobox, outlinks, category and content. It builds multi-level indexes. Total index-size was $< 1/4^{th}$ for 40GB dataset, answering queries in $< 1s$.

Compiler Optimization Phase Sequence Search EngineMentor: [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.

Minor Projects**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.

Room Reservation Web ApplicationMentor: [Y Raghu Reddy](#)→ *PHP, HTML, CSS, AJAX, Javascript, Mysql, Web development*

Built and deployed web application for room booking in IIIT-Hyderabad.

Proxy Web ServerMentor: [Bezawada Bruhadeshwar](#)→ *C, BSD Sockets, computer networks, pthreads, caching*

Developed a TCP based proxy web server that serves HTTP requests with a cache replacement policy.

Skill Set

Operating system	Linux/Unix, Microsoft Windows, Mac OS X
Languages	C, C++/CPP, Python, Ruby, PHP, Javascript, Scheme, Latex, Bash, Java, ARM-assembly
DBMS	Mysql
Programming Environment	Vim, eclipse, Sublime Text, DrRacket
Web Development	HTML, CSS, Javascript, Web2py, Ruby on Rails, Backbone, JQuery, Bootstrap
Testing Tools	Rspec , Jasmine
API's/softwares/tools	Amazon AWS(S3, EC2), Openstack, REST, Wireshark, Cisco Packet Tracer, OpenGL, Pthread, Libvirt, Git, Svn, Gephi, Weka

Relevant courses

Computer Networks, Information Retrieval and Extraction, System Resource Virtualization, Implementation of Database management Systems, Dataware warehousing and data mining, Parallel Programming, Compilers, Operating systems, Principles of Programming languages, Algorithms, Structured system analysis and design.

Achievements

- ACM - International collegiate programming contest, Asia onsite Regionals
(Team size: 3)
 - 13 rank, Kanpur 2013-2014
 - 15 rank, Kanpur 2012-2013
 - 22 rank, Amritapuri 2012-2013
 - 21 rank, Amritapuri 2011-2012
- Rank 3316 in IIT-JEE and Rank 2026 in AIEEE 2010
- IIIT-Hyderabad Dean's award II and III for academic excellence. 2010-2011

Extra-Curricular Activities	<i>Cultural Advisor</i> , IIIT-Hyderabad	2013-Present
	<i>Cultural Secretary</i> , IIIT-Hyderabad	2012 - 2013
	<i>Coordinator</i> , IIIT-Hyderabad's chapter of <i>Spic-Macay</i>	2012 - 2013
	<i>Dance Club Head</i> , IIIT-Hyderabad	2011 - 2013

The above information is correct to the best of my knowledge.

Updated on : July 10, 2013

- Parag Gupta