
Gaurav Agarwal

Apt 102 Block D, Aparna Heights, Kondapur Hyderabad | +91-99496-07571 | gagarwal@google.com

Education

| | |
|---|---------------------------|
| University of Southern California (Masters in Computer Science) | Los Angeles, CA |
| Related Coursework: Analysis of Algorithms, Approximation Algorithms, Artificial Intelligence, Machine Learning, Empirical methods in Natural Language Processing | December 2007 GPA 3.96 |
| BMS College of Engineering (Bachelor of Engineering in Computer Science) | Bangalore, India |
| Related Coursework: Advance Data Structures, Discrete Mathematics, Computer Networks, Database Systems, Computer System Architecture, System Software, Distributed Computing. | June 2004 Distinction |

Computer Skills

| | |
|---------------------------------|---|
| Programming/Scripting Languages | Java, C, C++, Python, SQL. |
| Database Systems | Oracle, MySql, PostGres, Microsoft SQL Server. |
| Operating Systems | Linux, Unix, Windows, Mac. |
| Other | Hadoop, Nutch, Matlab, CPLEX (LP solver), CSDP (SDP solver) |

Work Experience

| | |
|---|-----------------------------|
| Google Inc, Hyderabad Software Engineer | Jan 2008 - Present |
| <ul style="list-style-type: none">Developed very large scale Data Warehousing System.Developed large scale Indexing and Search System for emails and documents. | |
| University of Southern California, LA Teaching Assistant – Analysis of Algorithms | August 2007 - December 2007 |
| eBay Inc, San Jose Software Architecture Intern | May 2007 – August 2007 |
| <ul style="list-style-type: none">Designed and prototyped an integrated file exchange server using a custom protocol stack on top of HTTP. | |
| University of Southern California, LA Research Assistant | March 2007 – July 2007 |
| <ul style="list-style-type: none">Designed and deployed distributed system to crawl NGO organization web-sites and analyze the link-structure.Customized Nutch (an open-source web crawler) and developed modules to create, process and analyze the link graph using Hadoop (an open source Map-Reduce framework). | |
| Indian Institute of Information Technology, Bangalore Research Assistant | November 2005 - July 2006 |
| <ul style="list-style-type: none">Developed an efficient algorithm for Number Partitioning Problem and co-authored a research paper. | |
| Trilogy Software, Bangalore Senior Software Developer | June 2004 - April 2006 |
| <ul style="list-style-type: none">Designed and developed multiple software systems: On Line Automobile-Configuration System, Multi-Dimensional OLAP Engine, Performance Optimization Framework, Compensation Projecting Engine.Managed developer teams on multiple projects.Communicated with clients on the project status and other project related queries.Worked on platforms/languages like Java, C, Swing, JSP and SQL . | |
| Indian Institute of Information Technology, Bangalore Software Engineering Intern | January 2004 - June 2004 |
| <ul style="list-style-type: none">Performed a feasibility study for a set of applications to be developed for SIMPUTERS (Linux based mobile hand-held computers).Developed a Distributed Information Exchange System on SIMPUTERS to enable information centralization and exchange in a typical health-care institution. | |

Honors and Awards

- Awarded 'Best Software Project' at Shastra-2003, the National level technical fest at IIT-Madras, India.
- Received the 'Key Technical Contributor Award 05' at Trilogy Softwares.

Research Papers

- On Efficient Algorithms for Number Partitioning Problem (with Dr. K.V. Dinesha, IIIT-Bangalore)
- Modularity-Maximizing Graph Communities using Mathematical Programming (with Dr. David Kempe, USC)