

# Vikram Aggarwal

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## Education

PhD in Computer Science, University of California, Santa Barbara, 2008. Thesis topic: A Parallel Preconditioner for Finite Difference Octree Grids

Masters of Science, Computer Science, Florida State University, 2004.

Masters of Science, Applied Mathematics, IIT Bombay, 2002.

Bachelors of Science, Mathematics, St. Xaviers College, Bombay, 2000.

## Work Experience

Google Inc., Mountain View, California. Full-time employee with the search quality group, June 2008-present.

Google Inc., Mountain View, California. Intern in the payment fraud group, summer 2006.

Google Inc., Mountain View, California. Summer of Code participant, summer 2005.

University of California, Santa Barbara, Research Assistant to Prof. John Gilbert, 2004—2008.

Involved with maintaining and developing two open source software projects, and patches submitted to other well known open source projects.

Infotech Financials, Bombay, Procuring, setup and maintenance of the entire computer hardware and software. Also involved in various software development projects, 2000-2002.

## Skills

Considerable experience with developing software in C, C++, Python, and Java, especially with open source tools and teams. Programming experience in Common LISP, PERL, Fortran, and other languages.

Significant experience with a vast variety of operating systems: distributions of Linux, Mac OS X, and Microsoft products. Complete fluency with the Linux and UNIX system, both as administrator and as a user.

Considerable knowledge of Statistical and Mathematical software: R, Mathematica, Matlab, and Parallel environments: MPI, OpenMP.

## Papers

A. Srinivasan and V. Aggarwal, “A stochastic scheme for dynamic load balancing”, in “Proceedings of International Parallel and Distributed Processing Symposium”, IEEE, 2004.

A. Srinivasan and V. Aggarwal, “Stochastic Linear Solvers”, in “Proceedings of the SIAM Conference on Applied Linear Algebra”, SIAM, 2003.

A. Srinivasan and V. Aggarwal, “Improved Monte Carlo Linear Solvers through non-diagonal splitting”, in “LNCS: Proceedings of the 2003 International Conference on Computational Science and its Applications”, Springer Verlag, 2003.

## Awards and Achievements

Indian Institute of Technology, Bombay. Institute Silver Medal, MSc. Math, June 2002.

Indian Institute of Technology, Bombay. M.N. Gopalan Prize, June 2002.