



# Vikram Aggarwal

## Experience

- 2008–present **Senior Software Engineer**, *Google Inc.*, Mountain View.  
Wrote code to improve video search results on [www.google.com](http://www.google.com)
- Completed a large back-end and user-visible improvement in video results serving
  - Implemented various improvements to video search results through ranking, triggering and UI placement
  - Responsible for various production infrastructure changes to consolidate our serving architecture
  - Made serving infrastructure stable and reliable
  - Served as point-of-contact for production infrastructure
  - Supported the launch of Google Instant for video results
  - Participated in the development of Google Books as a 20% engineer
  - Organized talks under Authors@Google program
- 2005–2005 **Software Engineering Intern**, *Google Inc.*, Mountain View.  
Improved Google's Payment Fraud detection system
- Designed and implemented a location-based signal for detecting fraud
- 2000–2002 **Consultant**, *Infotech Financials*, Bombay, India.  
Setup and maintainance of infrastructure, consulted on software design
- Designing, procuring, setup, and maintainance of their diskless Linux fleet and network services
  - Consulted on software projects

## Education

- 2004–2008 **PhD.**, *University of California*, Santa Barbara.  
PhD in Computer Science
- 2002–2004 **MS.**, *Florida State University*, Tallahassee, Florida.  
Masters in Computer Science
- 2000–2002 **MS.**, *Indian Institute of Technology*, Bombay, India.  
Masters in Applied Mathematics

## Doctoral thesis

- title *A Parallel Preconditioner for Finite Difference Octree Grids*
- advisor John R. Gilbert, University of California, Santa Barbara
- description Developed a preconditioner for a specific fluid flow problem which exploits the graph-property of the finite difference grid creator to efficiently solve the linear system in parallel

Mountain View – California

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## Masters thesis

title *Improved Monte Carlo Linear Solvers Through Better Iterative Processes*  
advisor Ashok Srinivasan, Florida State University, Tallahassee  
description Developed an improved iterative process for solving non-diagonal linear systems through Monte Carlo methods

## Computer skills

Super	C/C++, Java, Python	Good	Assembly, Shell, $\LaTeX$ , R
Passable	Perl, Lisp, ARM	Platforms	Linux, Android, Web
Concepts	System design, Parallel programming	Avoid	Microsoft Office

## Awards and Achievements

April 2011 **Promoted**, *Google Inc*, Mountain View, California.  
Promoted to Senior Software Engineer

June 2002 **Institute Silver Medal**, *Indian Institute of Technology*, Bombay.  
Received the Institute Silver Medal for academic achievement

June 2002 **Academic distinction**, *Indian Institute of Technology*, Bombay.  
Received the M.N.Gopalan Prize for academic achievement

## Interests

UX	End-user design, User Experience	Software	Linux and Open Source
Embedded	Arduino/AVR, electronics	Mobile	Android and usability
Health	Bicycling, Running, Juggling	Languages	Mandarin Chinese