Vikram Aggarwal

Experience

2008–present   **Software Engineer**, *Google Inc.*, Mountain View.
Wrote code to improve video search results on 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 maintenance 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

Masters thesis

title   *Improved Monte Carlo Linear Solvers Though Better Iterative Processes*

advisor   Ashok Srinivasan, Florida State University, Tallahssee

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