



# Viki Aggarwal

*Technical excellence to deliver user value*

## Work Experience

- 2016–present **Software Eng Lead, Google Assistant, Google, Mountain View.**  
Delivered Google Assistant
- Delivered “My Day” feature for Google Assistant
  - Led the delivery of Contextual Cards for Google Assistant on Android
  - Currently designing and leading Assistant functionality on iOS, Android, and on the web
  - Assembling a team of strong contributors, managing performance and employee career growth
  - Delivering Assistant in Auto
- 2013–2015 **Staff Software Engineer, Google Search App, Google, Mountain View.**  
Improved the Android “Google” app
- Designed and led the client development of Now On Tap for Android Marshmallow
  - Worked on delivering Android Auto integration with Google Voice Search
  - Established a punctual release process for Google Search
  - Delivered on a large scale source code repository migration to allow faster development velocity
  - Led improvements to source code malleability and testing
- 2012–2013 **Senior Software Engineer, Android, Google, Mountain View.**  
Improved the Android Gmail app
- Implemented user-visible features to improve app usability
  - Supported the launch of the key Nexus devices through improvements in the Gmail app
  - Intern hosting, recruiting, and new engineer onboarding
  - Owner of Android encryption’s user interface
- 2008–2012 **Software Engineer, Search, Google, Mountain View.**  
Improved video search results on [www.google.com](http://www.google.com)
- Completed large back-end and user-visible improvements to video results serving
  - Improved video search results through ranking, triggering and UI placement
  - Consolidated serving stack to improve production infrastructure
  - Made serving infrastructure stable and reliable
  - Supported the launch of Google Instant for video results
- 2005–2005 **Software Engineering Intern, Google, 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.**  
Geek marine for hire
- Designed, procured and maintained 30-node diskless Linux fleet and network daemons
  - Consulted on software development

*Palo Alto – California*

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## Education

- 2008 **PhD.**, *University of California, Santa Barbara.*  
Computer Science
- 2002 **MS.**, *Indian Institute of Technology, Bombay, India.*  
Applied Mathematics

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## Doctoral thesis

- Title *A Parallel Preconditioner for Finite Difference Octree Grids*
- Location University of California, Santa Barbara
- Description Designed a preconditioner to exploit a graph-property of finite difference grids, efficiently solving fluid flow simulations in parallel

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## Skills

- Leadership Technical, Interpersonal                      Communication Individual, Team, External
- Domain Mobile, Server, User features                      Platforms Linux, Android, iOS
- Languages C/C++, Java

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## Profile

- Strengths Collaboration, Conflict resolution, Building a world-class team
- Goals Deliver world-class user benefit, Attain technical excellence
- Work/Life Guitar, Juggling, Photography