

Viki Aggarwal

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Work Experience

2008–now **Senior Staff Software Engineer**, *Google*, Mountain View.

Engineering Lead: Google Assistant

- Initiated, designed, and led the implementation and delivery of Google Assistant for Volvo's Polestar2 vehicle
- Built 50 engineer team, hiring strong engineers and engineering managers. Grew and navigated the team through organizational challenges.
- Led the technical development of Android and server development, provided technical direction to engineers and engineering managers
- Negotiated with Volvo, General Motors, Renault and other automakers to help them understand our product and create a working team structure and delivery plan
- Delivered Google Assistant on Android Auto and added functionality to improve user experience
- Led the delivery of Google Assistant directory on iOS, Android, Web, and Assistant features like "My Day"

Tech Lead: "Google" App on Android

- Designed and led the development of Now On Tap, a marquee feature of Android M
- Identified process and engineering inefficiencies and moved the team to a punctual release cadence
- Led 200+ engineer-team through a massive code migration, and improved developer tools and testability

Google search ranking and result serving

- Improved search results on google.com through improvements to ranking, triggering and UI placement
- Consolidated serving stack to improve production infrastructure and reduce operational costs
- Supported the launch of Google Instant for video results
- Made serving infrastructure stable and reliable

Selected Patents

- 2017 "Dynamically adapting provision of notification output to reduce user distraction and/or mitigate usage of computational resources", V. Aggarwal, M. Morgenstern
- 2015 "Providing suggested voice-based action queries", V. Aggarwal, P. Gupta
- 2012 "Authentication on a computing device", V. Aggarwal, J. Vaidya

Education

PhD., Computer Science, *University of California*, Santa Barbara.

MS., Applied Mathematics, *Indian Institute of Technology*, Bombay, India.

Skills

Leadership Leading 40+ engineers

Languages C/C++, Python, Java, Kotlin

Domain Mobile, Server, User features

Platforms Linux, Android, iOS, Web