

Gaurav Kharkwal

Contact Information

gaurav.kharkwal@gmail.com

+1 (571) 340-8629

Work Experience

Google, New York, NY

Software Engineer

June 2016 - Present

• Highlights:

- Proven technical leadership in executing and delivering cross-functional projects
- Full stack web and Android feature development using C++, Java, JavaScript, HTML/CSS
- Big data (logs) processing with MapReduce jobs written in Java (Flume) and Golang
- Query interpretation using in-house Natural Language Processing technologies
- Currently, building an on-device data synchronization platform for Google Assistant.
 - Work involves writing native Android code, maintaining a backend server, and ensuring data consistency and reliability between client- and server-backed data.
- Previously, worked on several projects in local search as an individual contributor, and later tech lead.
 - With me as TL, we launched new local search features with XXM Daily Active Users.
 - My responsibilities included leading 5+ engineers, and coordinating the launch, overall strategy, and developing a long-term roadmap (in partnership with PM and PGM).
 - As an IC, I have worked on various parts of local search and Google Maps' technical stack: query understanding, ranking, triggering, data quality, and web/Android full-stack development.

Bloomberg LP, New York, NY

UI Infrastructure Developer

Aug 2014 - May 2016

- Part of UI infrastructure team that maintained company-wide JavaScript APIs for feature developers
 - Our APIs were used by feature teams to develop the UI for Bloomberg "Functions".
- Built new features for exploratory next-generation Bloomberg Terminal using JavaScript and native Windows C++.
 - Examples of features I worked on include the Login screen, B-unit verification process, integration of the Terminal with Windows features such as the taskbar and context menus.

Technical Expertise

Experience

- Technical leadership: I have led and landed projects with various stakeholders
- Technical mentorship: I have hosted interns, engineering residents, and onboarded developers
- Full stack development of search features for web and Android

Programming Languages

- C++, JavaScript, Java
- Prior experience in: Python

Education

Rutgers University, New Brunswick, NJ

Ph.D., *Cognitive Psychology* (GPA: 4.0)

2014

M.S., *Computer Science* (GPA: 4.0)

2014

M.S., *Cognitive Psychology* (GPA: 4.0)

2011

- Awarded the Excellence in Dissertation Fellowship in the academic year 2013-2014.

International Institute of Information Technology, Hyderabad, India

B.Tech., *Computer Science and Engineering Hons.* (GPA: 9.04/10)

2009

- Dean's List every year for excellence in academic performance.

Kharkwal, G. and Muresan, S. (2014). "Surprisal as a Predictor of Essay Quality." *The 9th Workshop on Innovative Use of NLP for Building Educational Applications at ACL*, 54-60, Baltimore, MD.

Kharkwal, G. and Stromswold, K. (2014). "Good-enough language processing: Evidence from sentence-video matching." *Journal of Psycholinguistic Research*, 43(1), 27-43. doi:[10.1007/s10936-013-9239-5](https://doi.org/10.1007/s10936-013-9239-5).

Lee, C., **Kharkwal, G.**, and Stromswold, K. (2012). "Temporal transitions in narrative production with wordless picture books." *LSA Annual Meeting Extended Abstracts*, elanguage.net.