

Sitaram Iyer

San Carlos, California, United States



sitaram@gmail.com



[linkedin.com/in/sitaram-iyer](https://www.linkedin.com/in/sitaram-iyer)

Summary

I am motivated to work on a mission that tackles a genuine problem for users, preferably but not limited to those related to social impact and justice. My core strength is unlocking sensitive areas by finding new framing and approaches to difficult problems. I am open to opportunities in various industries, but I'm particularly interested in working on a substantial project that prioritizes users' deeper needs and allows me to use my expertise to make a meaningful impact on the world over the next decade.

Experience



Social Impact on Search - Distinguished Engineer (L9)

Google

2014 - Jan 2023 (9 years)

I spent the last decade at Google pursuing different missions to help underprivileged and marginalized groups through job search, education, financial wellness, and social justice.

See my resume in profile > contact info > website for links to relevant Google blog posts.

Projects:

- Big Moments (2020-2022): queries like [ukraine war] and [oscar], and other sensitive and/or popular moments such as natural disasters, protests, celebrity deaths, mass shootings, coups, trials, sporting events, etc., that dominate the news cycle globally.
- Financial Wellness (2020): queries like [payday loans] (attempted) and [unemployment] (advised)
- College Search (2017-19): queries like [ucsc] and [art schools near me]
- Job Search (2015-17): queries like [jobs near me] and [entry level jobs in finance]



Search Infrastructure - Member of Tech Staff (L4) to Distinguished Engineer (L9)

Google

Aug 2003 - 2014 (11 years)

In the decade before that, I worked on Search infrastructure projects at Google, like web and knowledge graph indexing.

Projects:

- Foundation (2014-15): Attempt to unify structured/unstructured, private/public, crawl/indexing/serving systems
- Livegraph (2012-13): Incremental composition of the Knowledge Graph
- Alexandria (aka Caffeine) (2007-13): Incremental indexing system scaled to 1T web pages, averaging 1 min latency
- Indexing pipeline (2005-2010): Batch indexing pipeline that scaled to 200B web pages with 36 hour latency

➤ Index scaling (2003-2005): Launched 8B web page index over 3 weeks on the eve of Microsoft's 5B index



Intern

Microsoft Research

Jul 2001 - Sep 2001 (3 months)

Publication: Squirrel: A decentralized peer-to-peer web cache. Sitaram Iyer, Ant Rowstron, Peter Druschel. Published in the Symposium on the Principles of Distributed Computing (PODC), July 2002, Monterey, CA.

Education



Rice University

Doctor of Philosophy - PhD, Operating systems

2001 - 2003

Dissertation: Application-assisted physical memory management

Related publication: Practical, transparent operating system support for superpages. Juan Navarro, Sitaram Iyer, Peter Druschel, Alan Cox. Published in the Symposium on Operating Systems Design and Implementation (OSDI), Dec 2002, Boston, MA.



Rice University

Master of Science, Computer Science

1998 - 2001

Thesis & publication: Anticipatory scheduling: A disk scheduling framework to overcome deceptive idleness in synchronous I/O. Sitaram Iyer, Peter Druschel. Published in the Symposium on Operating Systems Principles (SOSP), Sep 2001, Chateau Lake Louise, Banff, Canada.



Indian Institute of Technology, Bombay

B. Tech, Computer Science and Engineering

1994 - 1998

Thesis & publication: Xority: A measure of separability of training sets to estimate hidden layer size in neural networks. Sitaram Iyer, Pushpak Bhattacharyya. Published in the Intl. Conference of Knowledge Based Computer Systems (KBCS), Dec 1998, Bombay, India.

Skills

Distributed Systems • Scalability • MapReduce • Perl