

# Janak Ramakrishnan

Experienced backend engineer and manager with mathematics Ph.D.  
interested in socially beneficial technically challenging work

(917) 596-6881

[janak@janak.org](mailto:janak@janak.org)

<https://github.com/janakdr>

## EXPERIENCE

### Google, NYC

2022 - 2023 Staff Software Engineer/Engineering Manager on Speech Recognition

2019 - 2022: Staff Software Engineer on Blaze/Bazel

2014 - 2019: Senior Software Engineer

2012 - 2014: Software Engineer III

- Manage team of 11 engineers working on Speech Recognition, serving all speech recognition at Google (billions of requests/day, varying from single words to hours-long videos).
- Previously worked on developer tools, specifically Blaze (open-sourced as [Bazel](#)).
- Expertise on distributed systems, high-throughput concurrent programs, parallelization, filesystems.
- Experience hiring and managing team performance/priorities while continuing to make high-level technical contributions.
- To date, have edited >600K lines of code in >4,000 commits (including [open-source commits](#)).

### Post-doctoral researcher in o-minimality

2010 - 2012: University of Lisbon, Portugal

2008 - 2012: University of Lyon, France

- Continued academic research into o-minimality (branch of model theory), focusing on definable orders and interpretable groups.

## EDUCATION

### University of California, Berkeley — *Ph.D., Mathematics*

2002 - 2008

Dissertation focused on a branch of mathematical logic, o-minimality, which studies ordered structures like the real numbers.

### Harvard University, Cambridge, MA — *A.B., Mathematics*

1997 - 2001

## SKILLS

Java/C++/Python

Concurrency, multithreaded performance, distributed systems

CPU/memory profiling and optimization

Team management

Shell

Go/JavaScript

## SELECTED PUBLICATIONS

[Interpretable groups are definable](#) with P. Eleftheriou and K. Peterzil (Journal of Mathematical Logic, 2014)

[Definable linear orders definably embed into lexicographic orders in o-minimal structures](#)

(Proceedings of the American Mathematical Society, 2012)

[Definable functions continuous on curves in o-minimal structures](#)

(Annals of Pure and Applied Logic, 2014).