

# Rohan Dandavati

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## EXPERIENCE

### Google, San Francisco, CA

*Software Engineer, Math Solver in Google Search*

January 2022 – Present

- Added functionality to Google’s educational symbolic math problem solver, written mostly in Kotlin and Java. Wrote the infrastructure to serve requests made to a new geometry solver service, which was launched in Search in 2023. Promoted (level 3 to level 4) for work on this launch
- Designed and implemented a feature to automate the simplification of trigonometric expressions as an instructional aid, launched in Search in 2023

*Software Engineer, Firebase Messaging*

August 2019 – January 2022

- Full-stack engineer on the distributed messaging system responsible for push notifications on all Android devices
- Designed, implemented, and launched a new web page for viewing and composing in app messages and notifications
- Authored a coding tutorial to onboard new users through a new messaging feature

### University of Chicago Department of Mathematics, Chicago, IL

*Scholar, Research Experience for Undergraduates*

June – August 2018

- Researched and wrote an expository paper discussing algorithms for Fourier analysis on finite groups, wrote a novel Python implementation of an algorithm discussed in the paper

### University of Chicago Department of Ecology & Evolution, Chicago, IL

*Research Assistant*

May 2017 – October 2017

- Wrote Python/R scripts for analysis and aggregation of flu vaccine effectiveness and coverage data, under the direction of Dr. Sarah Cobey, within a team of postdoctoral fellows, graduate students, and other undergraduates
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## EDUCATION

### University of Chicago, Chicago, IL

*Master of Science in Computer Science (joint BS/MS program)*

June 2019

*Bachelor of Science in Mathematics*

June 2019

**GPA:** 3.85/4

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## SKILLS

**Programming Languages:** Java, Kotlin, Python, Typescript, C, Racket, HTML, R

**Public Speaking:**

- Main speaker at Google Virtual Developer Meetup July 16 2020
- “Fourier Analysis: an Algorithmic Perspective” at UChicago Math REU August 10 2018

**Spoken Languages:** Spanish proficiency

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## ACTIVITIES / ACHIEVEMENTS

### Code Next, Bay Area, CA

*Instructor*

June 2021

### Math Circles of Chicago, Chicago, IL

*Instructor*

April 2018 – June 2019

### University of Chicago, Arley D. Cathey Learning Center, Chicago, IL

*Computer Science Tutor*

October 2018 – June 2019

### University of Chicago, Society for Scientists of Color, Chicago, IL

*Math Mentorship Head*

October 2018 – June 2019

### Boy Scouts of America

*Eagle Scout*

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## LINKS

Google geometry solver blog post: <https://blog.google/products/search/more-help-with-math-and-science-problems-in-search/>

Firebase in-app messaging experiments walkthrough I co-authored: <https://firebase.google.com/codelabs/fiam-abt#0>

Math paper I authored: <http://math.uchicago.edu/~may/REU2018/REUPapers/Dandavati.pdf>