

# Rohan Garg

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**Citizenship:** USA

## Education

### Purdue University

Aug 2020 – May 2025 (Expected)

Ph.D. in Computer Science (In Candidacy)

Advisor: Alexandros Psomas

Thesis: Algorithmic Economics in Modern Computational Settings

### The University of Texas at Austin

Aug 2016 – May 2020

B.S. in Electrical and Computer Engineering

Track: Software Engineering

## Honors and Scholarships

Ross Fellow (Purdue): “Recognizes academic excellence.”

2020 – 2024

University Honors (UT Austin)

Fall 2016, 2019

## Industry Experience

**DoorDash** - Sunnyvale, CA - *Machine Learning Engineering Intern* ([Blog Post](#)).

Summer 2024

Designed and implemented novel budget pacing algorithm that reduced daily over-delivery of advertiser budget by 2%. Derived actionable insights from ad-spend data and gave presentation on team-level goals for budget pacing system. Tech Stack: Python, PySpark, SQL, Snowflake, and Databricks.

**Amazon (AWS)** - Seattle, WA - *Software Development Engineering Intern*

Summer 2019

Increased verification of AWS billing by implementing serverless function that manipulated data from DynamoDB for the Commerce Platform. Tech Stack: Java, AWS S3, Lambda, and DynamoDB.

**Cox Automotive** - Austin, TX - *Software Engineering Intern*

Summer 2018

Developed NLP tools to identify customer pain-points from user reviews for Backend Services team. Wrote automated tests for front-end verification. Tech Stack: Python, AWS Comprehend, C#/.NET, and Selenium.

## Publications

**Smart Fast Finish: Daily Budget Pacing at DoorDash** - R. Garg et. al.

*In Submission*

**Fairly Allocating Goods in Parallel** - R. Garg, A. Psomas.

[AAMAS 2025](#)

**Randomization in Efficient Mechanisms Without Money** - R. Garg, A. Psomas.

[Manuscript, 2021](#)

**Fast and Work-Optimal Parallel Algorithms for Predicate Detection** - R. Garg.

[arXiv, 2020](#)

**Parallel Algorithms for Predicate Detection** - V.K. Garg, R. Garg.

[ICDCN, 2019](#)

## Teaching Experience

**Algorithms, (UT Austin & Purdue)** - *Teaching Assistant*

Spring 2019, 2020 & Fall 2021, 2023

In charge of creating and grading assignments, holding office hours, and teaching topics including dynamic programming, network flow, and intractability for  $\approx 300$  students. Served as Head Graduate TA in Fall 2021.

**Spring '19 rated 4.5/5. Spring '20 rated 4.8/5. Fall '23 rated 4.4/5.**

## Skills

Programming Languages: Python.

Frameworks/Tools: PySpark, Databricks, Snowflake (SQL), LaTeX.

Industry Practices: Agile Methodology, Git Version Control.

## Other

Languages spoken: English (Fluent), Hindi (Advanced), Spanish (Limited).

Academic Service: 2025 ESA Reviewer

Other Interests: Badminton, Tennis, Soccer, Contract Bridge, Chess.