Yuvaraj Chesetti

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SUMMARY

Computer Science Ph.D. student at Northeastern University (starting Spring 2025) under the supervision of Prof. Prashant Pandey. My research centers on developing efficient data structures with strong theoretical foundations to handle large-scale data processing. Previously, I worked as a Software Engineer at Google for five years, focusing on internal tools and infrastructure that improved the efficiency of development, testing, and release processes across multiple product teams.

EDUCATION

Northeastern University, Boston, MA USA — Spring 2025 - 2027 (Expected)
Ph.D. Computer Science

University of Utah, Salt Lake City, UT, USA — Fall 2022 - 2024
Masters. Computer Science
(Entered PhD program in Fall 2023, transferred to NEU)

Birla Institute of Technology, Mesra, India — 2012-2016
B.S in Computer Science

PUBLICATIONS

Aeris Filter: A Strongly and Monotonically Adaptive Range Filter — *SIGMOD 2026*
Yuvaraj Chesetti, Navid Eslami, Huanchen Zhang, Niv Dayan, Prashant Pandey

ZombieHT: Reanimating Tombstones in Graveyard — *SIGMOD 2025*
Yuvaraj Chesetti, Benwei Shi, Jeff Philips, Prashant Pandey

Evaluating Learned Indexes for External-Memory Joins — *ACDA 2025*
Yuvaraj Chesetti, Prashant Pandey

TALKS AND PRESENTATIONS

Adaptive Range Filters — *January 2025*
Northeastern Database Day, Brandeis University, Waltham, MA

ZombieHT: Reanimating Tombstones in Graveyard (Lightning talk) — *February 2025*
Fusing theory and practice of graph algorithms, ICERM, Providence, RI

TEACHING

Teaching Assistant, CS 6530: Advanced Database Systems, University of Utah — *Fall 2024*
Assisted in teaching advanced topics in database systems, delivered a lecture on learned indexes.

INDUSTRY EXPERIENCE

Google — India

Software Engineer L4, Unified Fleet Optimization (UFO) EngProd, Bangalore — *Nov 2019 - July 2021*

- Developed an automated missing test suggestion tool to reduce coverage gaps in large integration tests by cross-referencing production traces with test traces across the entire Unified Fleet Optimization team, which is an organization of roughly a thousand engineers.

Software Engineer L4, xGA Search, Bangalore — *Nov 2018 - Nov 2019*

- Lead on team for delivering a curation pipeline used in delivering short videos to the Google Discover Feed.

Software Engineer L3-L4, Google Pay, Hyderabad — *July 2016 - Nov 2018*

- Member of the launch team of Tez (now rebranded as Google Pay India).
- Project Lead on load testing infrastructure. The infrastructure allowed developers to conduct scalability tests before production launches, resulting in more stable releases. The load testing infrastructure was also critical in preventing several releases that would have caused outages.
- Implemented Backend APIs and caching layer improvements for a new payment flow.