
CONTACT INFORMATION	Computer Science Department Boston University CDS 925C, Center for Computing and Data Sciences, 665 Commonwealth Ave, Boston, MA 02215 E-mail: aneeshr@bu.edu , aneeshraman97@gmail.com Website: https://ramananeesh.github.io/
RESEARCH INTERESTS	Database Systems, Data Management, and Indexing.
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"> • Teaching/Research Fellow at Boston University Jan 2021 - Present • Student Researcher at System Research@Google Sep 2023 - Dec 2023 • Research Intern at System Research@Google May 2023 - Sep 2023 • Teaching Assistant at Boston University Jan 2020 - Dec 2020 • Teaching Asst. at Purdue University Fort Wayne Jan 2017 - May 2019 • Software Engr. Intern at Ogha Research LLP, India May 2018 - Aug 2018
EDUCATION	<p>Ph.D. in Computer Science, 2021 - Present Boston University, Massachusetts, USA.</p> <p>M.Sc. in Computer Science and Engineering, 2019 - 2021 Boston University, Massachusetts, USA.</p> <p>B.S in Computer Science, 2015 - 2019 Purdue University Fort Wayne, IN, USA. Graduated with Highest Distinction, Dean's List and Semester Honors List</p>
SCHOLARSHIPS AND AWARDS (SELECTED)	<ul style="list-style-type: none"> • NSF Travel Grant for VLDB Travel Support 2022 2022 • Outstanding Teaching Fellow at Boston University Graduate School of Arts and Sciences Spring 2022 • Departmental Partial Tutition Scholarship at Boston University Department of Computer Science 2019 • Sushil K Usman Endowed Scholarship at Purdue University Fort Wayne 2016 - 2019 • Chancellor's Merit Scholarship at Purdue University Fort Wayne 2015-2019
PUBLICATIONS	<ol style="list-style-type: none"> 1. Aneesh Raman, Konstantinos Karatsenidis, Shaolin Xie, Matthaïos Olma, Subhadeep Sarkar, , Manos Athanassoulis. <i>Quit your B⁺-tree for the Quick Insertion Tree</i>, (Under Review), 2024; https://cs-people.bu.edu/aneeshr/quit-paper.pdf. 2. Aneesh Raman, Andy Huynh, Jinqi Lu, Manos Athanassoulis. <i>Benchmarking Learned and LSM Indexes for Data Sortedness</i>, Proceedings of the Workshop on Testing Database Systems (DBTest), 2024; https://cs-people.bu.edu/aneeshr/benchmark-learned-and-lsm-paper.pdf. 3. Aneesh Raman, Subhadeep Sarkar, Matthaïos Olma, Manos Athanassoulis. <i>Indexing for Near-Sorted Data</i>, Proceedings of the International Conference on Data Engineering (ICDE), 2023; https://ieeexplore.ieee.org/document/10184781. 4. Aneesh Raman, Konstantinos Karatsenidis, Subhadeep Sarkar, Matthaïos Olma, Manos Athanassoulis. <i>BoDS: A Benchmark on Data Sortedness</i>, Proceedings of the TPC Technology Conference on Performance Evaluation & Benchmarking (TPCTC), 2022; https://cs-people.bu.edu/mathan/publications/tpctc22-raman.pdf.

5. Ju Hyoung Mun, Zichen Zhu, **Aneesh Raman**, Manos Athanassoulis. *LSM-Tree Under (Memory) Pressure*, Proceedings of the International Workshop on Accelerating Data Management Systems Using Modern Processor and Storage Architectures (**ADMS**), 2022; <http://cs-people.bu.edu/mathan/publications/adms22-mun.pdf>.
6. Zichen Zhu, Ju Hyoung Mun, **Aneesh Raman**, Manos Athanassoulis. *Reducing Bloom Filter CPU Overhead in LSM-Trees on Modern Storage Devices*, Proceedings of the International Workshop on Data Management on New Hardware (**DaMoN**), 2021; <https://dl.acm.org/doi/10.1145/3465998.3466002>.

POSTERS AND PRESENTATIONS

1. **Aneesh Raman**, Subhadeep Sarkar, Matthaïos Olma, Manos Athanassoulis. *Indexing for Near-Sorted Data*, Poster at IEEE ICDE 2023.
2. **Aneesh Raman**, Konstantinos Karatsenidis, Subhadeep Sarkar, Shaolin Xie, Jingyi Huang, Matthaïos Olma, Manos Athanassoulis. *Sortedness-Aware Indexing*, Poster at North East Database Day 2023.
3. Zichen Zhu, Ju Hyoung Mun, **Aneesh Raman**, Manos Athanassoulis. *Reducing Bloom Filter CPU Overhead in LSM-Trees on Modern Storage Devices*, Poster at North East Database Day 2020.

RESEARCH TALKS

1. “Indexing for Near-Sorted Data”, Apr 2023, *ICDE*, Anaheim, CA.
2. “BoDS: A Benchmark on Data Sortedness”, Sep 2022, *TPCTC 2022*, Sydney, Australia.
3. “Indexing for Near-Sorted Data”, Apr 2022, *CGSW*, Boston University.

TEACHING EXPERIENCE (SELECTED)

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| Boston University (Teaching Fellow/TA) | 2020 - Present |
| • CS 210 (Computer Systems) | Spring 2024 |
| • CS 660 (Graduate Introduction to Databases) | Fall 2023 |
| • CS 660 (Graduate Introduction to Databases) | Fall 2022 |
| • CS 561 (Data Systems Architectures) | Spring 2022 |
| • CS 460 (Introduction to Database Systems) | Fall 2021 |
| • CS 561 (Data Systems Architectures) | Spring 2021 |
| • CS131 (Combinatoric Structures) | Spring, Summer & Fall 2020 |
| Purdue University Fort Wayne (Teaching Assistant) | 2017 - 2019 |
| • CS260 (Data Structures) | |
| • CS232 (Introduction to C & Unix) | |
| • CS384 (Numerical Analysis) | |

PROFESSIONAL SERVICES

- **Availability Reviewer**, SIGMOD 2022

TECHNICAL SKILLS

- **Programming Languages:** C, C++, C#, Java, Python, PHP, Node.js
- **Markup Languages:** HTML, L^AT_EX
- **Database Management Systems:** RocksDB, PostgreSQL, MySQL, MongoDB
- **Machine Learning:** TensorFlow, PyTorch, Keras