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CONTACT INFORMATION	Computer Science Department Boston University CDS 925C, Center for Computing and Data Sciences, 665 Commonwealth Ave, Boston, MA 02215 E-mail: <a href="mailto:aneeshr@bu.edu">aneeshr@bu.edu</a> , <a href="mailto:aneeshraman97@gmail.com">aneeshraman97@gmail.com</a> Website: <a href="https://ramananeesh.github.io/">https://ramananeesh.github.io/</a>
RESEARCH INTERESTS	Data Systems, Data Management, and Indexing.
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"> <li>• Teaching Asst./TF at <b>Boston University</b> Jan 2020 - Present</li> <li>• PhD Researcher at <b>Boston University</b> Jan 2021 - Present</li> <li>• MS Researcher at <b>Boston University</b> Sept 2019 - Dec 2020</li> <li>• Teaching Asst. at <b>Purdue University Fort Wayne</b> Jan 2017 - May 2019</li> <li>• Software Engr. Intern at <b>Ogha Research LLP</b>, India May 2018 - Aug 2018</li> </ul>
EDUCATION	<p><b>Ph.D. in Computer Science</b>, 2021 - Present Boston University, Massachusetts, USA.</p> <p><b>M.Sc. in Computer Science and Engineering</b>, 2019 - 2021 Boston University, Massachusetts, USA.</p> <p><b>B.S in Computer Science</b>, 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"> <li>• <b>NSF Travel Grant for VLDB Travel Support 2022</b> 2022</li> <li>• <b>Outstanding Teaching Fellow</b> at Boston University Graduate School of Arts and Sciences Spring 2022</li> <li>• <b>Departmental Partial Tuition Scholarship</b> at Boston University Department of Computer Science 2019</li> <li>• <b>Sushil K Usman Endowed Scholarship</b> at Purdue University Fort Wayne 2016 - 2019</li> <li>• <b>Chancellor's Merit Scholarship</b> at Purdue University Fort Wayne 2015-2019</li> </ul>
PUBLICATIONS	<ol style="list-style-type: none"> <li>1. <b>Aneesh Raman</b>, Subhadeep Sarkar, Matthaïos Olma, Manos Athanassoulis. <i>Indexing for Near-Sorted Data</i>, Proceedings of the International Conference on Data Engineering (ICDE), 2023.</li> <li>2. <b>Aneesh Raman</b>, 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 &amp; Benchmarking (TPCTC), 2022.</li> <li>3. Ju Hyoung Mun, Zichen Zhu, <b>Aneesh Raman</b>, Manos Athanassoulis. <i>LSM-Tree Under (Memory) Pressure</i>, Proceedings of the International Workshop on Accelerating Data Management Systems Using Modern Processor and Storage Architectures (ADMS), 2022.</li> <li>4. Zichen Zhu, Ju Hyoung Mun, <b>Aneesh Raman</b>, Manos Athanassoulis. <i>Reducing Bloom Filter CPU Overhead in LSM-Trees on Modern Storage Devices</i>, Proceedings of the International Workshop on Data Management on New Hardware (DaMoN), 2021.</li> </ol>

5. Jin Soung Yoo, Sang Jun Park, **Aneesh Raman**. *Micro-level Incident Analysis Using Spatial Association Rule Mining*, IEEE International Conference on Big Knowledge (ICBK), 2019

POSTERS AND PRESENTATIONS

1. **Aneesh Raman**, Konstantinos Karatsenidis, Subhadeep Sarkar, Shaolin Xie, Jingyi Huang, Matthaïos Olma, Manos Athanassoulis. *Sortedness-Aware Indexing*, Poster at North East Database Day 2023.
2. 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. “BoDS: A Benchmark on Data Sortedness”, Sep 2022, *TPCTC 2022*, Sydney, Australia.
2. “Indexing for Near-Sorted Data”, Apr 2022, *CGSW*, Boston University.

TEACHING EXPERIENCE (SELECTED)

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| <b>Boston University (Teaching Fellow)</b>               | 2020 - Present             |
| • 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 |
| <b>Purdue University Fort Wayne (Teaching Assistant)</b> | 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<sup>A</sup>T<sub>E</sub>X
- **Database Management Systems:** RocksDB, PostgreSQL, MySQL, MongoDB
- **Machine Learning:** TensorFlow, PyTorch, Keras

SELECTED PROJECTS

- **Sortedness-Aware Indexing (Ongoing):** Exploring sort-order characteristics in data streams to reduce index construction cost in data systems.
- **Amazon Marketplace Data Presenter (Senior Capstone Project):** Web tool for Redesigned Retail, Inc. using MEAN Stack, Amazon MWS API and AWS services.
- **DATA TOOLS WEB APPLICATION (Internship):** Full stack web application for HFT Trading Result Analysis to capture analytical data.