

# SURAJ SHETIYA

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PhD candidate  
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## SHORT BIO

Suraj Shetiya is a PhD candidate at University of Texas at Arlington. His research lies in the area of **Responsible Data Management** and **Database Queries in Metric spaces**. In addition, he is interested in algorithmic and conceptual problems in **computational geometry**, **graph algorithms**, and **metric space**, with the goal to design efficient algorithms.

## EDUCATION

Ph.D. in Computer Science  
**University of Texas at Arlington** (1/2018 - 8/2023)  
**Dissertation:** Compact representatives of databases and responsible data management  
Advisor: Dr. Gautam Das

M.S. in Computer Science  
**University of Texas at Arlington** (8/2015 - 12/2017)  
Overall GPA: 4.0

B.E. in Computer Science % Engineering  
**Visvesvaraya Technological University, India** (08/2006-08/2010)  
Overall Percentage: 76

## AWARDS

**John S. Schuchman Outstanding Doctoral Student Award** in recognition of my research contributions from the Department of Computer Science and Engineering, University of Texas at Arlington, 4/2022

Awarded **Graduate School Summer 2023 Dissertation Fellowship** from University of Texas at Arlington, 5/2023

**Outstanding Doctoral Dissertation Award** in recognition of my contributions to research in my dissertation from the Department of Computer Science and Engineering, University of Texas at Arlington , 4/2023

## SUMMARY OF PUBLICATIONS

Full papers at top-tier conferences (SIGMOD, VLDB) : 3  
Full papers at other peer-reviewed conferences (ICDE) : 2  
Papers under submission: 1  
Number of citations: 34 and h-index: 3 (as per Google Scholar in April 2023)  
Full list of papers: Google Scholar, DBLP

**FULL  
RESEARCH  
PAPERS**

**Suraj Shetiya**, Ian P Swift, Abolfazl Asudeh and Gautam Das.  
*Fairness-aware range queries for selecting unbiased data*  
IEEE 38th International Conference on Data Engineering (**ICDE**), 2022.

Saravanan Thirumuruganathan, **Suraj Shetiya**, Nick Koudas, Gautam Das.  
*Prediction Intervals for Learned Cardinality Estimation: An Experimental Evaluation*  
IEEE 38th International Conference on Data Engineering (**ICDE**), 2022.

Jees Augustine, **Suraj Shetiya**, Mohammadreza Esfandiari, Senjuti Basu Roy, Gautam Das.  
*A Generalized Approach for Reducing Expensive Distance Calls for A Broad Class of Proximity Problems*  
Proceedings of the 2021 International Conference on Management of Data (**SIGMOD**), 2021

**Suraj Shetiya**, Saravanan Thirumuruganathan, Nick Koudas, Gautam Das.  
*Astrid: Accurate Selectivity Estimation for String Predicates using Deep Learning*  
Proceedings of the VLDB Endowment (**PVLDB**), 2020

**Suraj Shetiya**, Abolfazl Asudeh, Sadia Ahmed, Gautam Das.  
*A Unified Optimization Algorithm For Solving “Regret-Minimizing Representative” Problems*  
Proceedings of the VLDB Endowment (**PVLDB**), 2019

**SHORT  
PAPERS**

Jees Augustine, **Suraj Shetiya**, Abolfazl Asudeh, Saravanan Thirumuruganathan, Azade Nazi, Nan Zhang, Gautam Das, Divesh Srivastava.  
*Orca-SR: a real-time traffic engineering framework leveraging similarity joins*  
Proceedings of the VLDB Endowment (**PVLDB**), 2020

**SERVICE**

Reviewer for *TheWebConf 2024*, *ICDE 2024*

**EXPERIENCE**

**Graduate Research Assistant/Graduate Teaching assistant at University of Texas at Arlington** (9/2017-05/2023)

Contributed to research projects in diverse areas. Involved as a Teaching Assistant in various courses - Distributed Systems, Introduction to Digital Logic, Computer Graphics, Secure Programming, Advanced Information Security, Design and Analysis of Algorithms, and Advanced algorithms.

**Intern(C++ development) at MathWorks**, Boston (6/2016-1/2017)

Built a transpiler from Matlab’s drawing APIs to SVG. Involved in designing different features of a JavaScript-based SVG editor.

**Big Data Engineer at Cynepia Software Solutions**, Bengaluru, India (02/2015-7/2015)

Designed and built different modules of the data mining pipeline.

**Platform Engineer at Career Launcher**, Coimbatore, India (12/2013-1/2015)

Involved in creation of web-based application for student evaluation.

**Software Engineer at NetApp**, Bengaluru, India (8/2010-10/2013)

Lead the test automation efforts for my team. Involved in test suite parallelisation efforts.

## REFERENCES

Dr. Gautam Das, Associate Dean For Research, University of Texas at Arlington  
Dr. Senjuti Basu Roy, Associate Professor, New Jersey Institute of Technology  
Dr. Abolfazl Asudeh, Assistant Professor, University of Illinois, Chicago  
Mr. David Levine, Associate Professor, University of Texas at Arlington