

# Swapnil Gandhi

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## RESEARCH INTERESTS

Scalable temporal-graph processing, data-intensive abstraction and systems, self-driving databases

## EDUCATION

**Indian Institute of Science, Bangalore, India**

- Studying towards Masters in Computer and Data Systems Jul 2017 – Present
- Cumulative GPA: 9.2 / 10.0 (Ranked 1st)

**Bharati Vidyapeeth, Pune, India**

- Bachelors in Computer Science and Engineering Jul 2010 – Jun 2014
- Graduated with Department Honors (Ranked 1st)
- Thesis : Mutation Testing Tool for C Programs

## RESEARCH EXPERIENCE

**Indian Institute of Science, Bangalore – Prof. Yogesh Simmhan**

Jun 2017 – Present

- Design and implementation of distributed temporal graph processing system

**TATA Research Development and Design Center, (TRDDC), India**

Sep 2013 – Apr 2014

- Research Intern – Prasad Bokil, Researcher
- Designed and implemented tool for generating and evaluating quality of structural test cases for C Programs.
- Co-Supervisors: Ulka Shrotri, R. Venkatesh

## PUBLICATIONS

### POSTER

- [1] S. Gandhi, and Y. Simmhan, “From ‘Think Like a Vertex’ to ‘Think Like an Interval’”, *Young Researcher’s Symposium* at ACM India Joint International Conference on Data Science and Management of Data (6th ACM IKDD CoDS and 24th COMAD), Kolkata, India, Jan 2019.
- [2] S. Gandhi, S. Sarkar, A. Sharma, and Y. Simmhan, “Distributed Querying over Compressed Property Graphs”, *Student Research Symposium* at 24th IEEE International Conference on High Performance Computing, Data and Analytics (HiPC), Jaipur, India, Dec 2017.

## AWARDS & FELLOWSHIPS

- Won 12th IEEE International TCSC Scalable Computing (SCALE) Challenge May 2019
- For “Dynamic Scaling of Video Analytics for Wide-area Tracking in Urban Spaces” co-located with the 19th IEEE/ACM Cluster, Cloud and Grid Computing Conference (CCGrid)
- Best Poster Award, EECS Research Students Symposium, Bangalore, India Apr 2019
- For “Distributed Processing Model For Temporal Graphs” at the 10th EECS Research Students Symposium
- Invited to attend 3rd RIKEN R-CCS HPC Youth Workshop, Kobe, Japan Feb 2019
- Best Student Research Symposium Poster, HiPC, Jaipur, India Dec 2017
- Department Honors, Bharati Vidyapeeth, Pune, India Jun 2014
- For outstanding academic performance (Batch 2010 – 2014)
- TCS Popular Student Project, Bharati Vidyapeeth, Pune, India May 2014
- Best Undergraduate Project Award, TRDDC, Pune, India Apr 2014
- For “Mutation Testing Tool for C Programs” at TRDDC Annual Students Day

## TEACHING, LECTURES & SERVICE

- DS 256: Scalable Systems for Data Science Jan 2019
- As Teaching Assistant with Prof. Yogesh Simmhan
- E0 261: Database Management Systems Oct 2018
- Lecture on Big Data Systems
- Web Chair, Doctoral Symposium ICDCN 2019, Bangalore, India Aug 2018

## WORK EXPERIENCE

**PubMatic, India**

- Big Data Operations Developer Jun 2014 – Jul 2016
- Worked on design and implementation of reporting and ad-hoc data pipelines for processing several TeraBytes of raw data flowing through PubMatic platform using Apache Spark, Storm, Casandra, Hive and MapReduce.
- Focus: Big Data Analytics

## SKILLS

Java, C, C++, CUDA C, Python,  $\text{\LaTeX}$

[CV compiled on 2019-05-18]