

Swapnil Gandhi

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EDUCATION

- Indian Institute of Science, Bangalore Aug 2017- Present
- M.Tech (Research), Department of Computational and Data Sciences (CDS)
 - Advisor: Dr. Yogesh Simmhan
 - CGPA: 9.2 / 10.0 (Ranked 1st)
- Selected coursework: Scalable Systems for Data Science, Topics in Database Systems, Database Management Systems, Linear Algebra and Applications, Introduction to Scalable Systems
- Bharati Vidyapeeth, Pune Jul 2010 – Jun 2014
- B.Tech in Computer Engineering
 - Graduated with Department Honors
 - Course-Work Grade: First Class with Distinction (Highest attainable grade)
 - Thesis : Mutation Testing Tool for C Programs

PUBLICATIONS

[Papers & Posters available [here](#).]

CONFERENCES

- [1] [S. Gandhi](#), and Y. Simmhan, “An Interval-centric Model for Distributed Computing over Temporal Graphs”, 2020 IEEE 36th International Conference on Data Engineering (ICDE), Dallas, Texas.

POSTERS

- [1] [S. Gandhi](#), “Wave : A Substrate for Distributed Incremental Graph Processing on Commodity Clusters”, ACM *Student Research Competition* (SRC) at 27th Symposium on Operating Systems Principles (SOSP), Ontario, Canada, Oct 2019.
- [2] [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.
- [3] [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

- Bronze Medal at ACM Student Research Competition (Graduate Category), SOSP 2019 Oct 2019
- Received a \$1750 travel scholarship from ACM SIGOPS for attending the 27th ACM Symposium on Operating Systems Principles (SOSP) in Ontario, Canada Aug 2019
- Won 12th IEEE International TCSC Scalable Computing (SCALE) Challenge For “Dynamic Scaling of Video Analytics for Wide-area Tracking in Urban Spaces” May 2019
- Best Poster Award, EECS Research Students Symposium, IISc 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

SERVICE & LEADERSHIP

- Artifact Evaluation Committee (AEC) member for SOSP 2019 Aug 2019
- Treasurer and General Secretary for IISc ACM Student Chapter Mar 2019 – Present
- Web Chair, Doctoral Symposium ICDCN 2019, Bangalore, India Aug 2018

TEACHING & LECTURES

- Graduate Teaching Assistant, Indian Institute of Science Jan 2019
TA for DS 256: Scalable Systems for Data Science with Prof. Yogesh Simmhan. Handled weekly discussion sections, homework assignments and helped with class projects

- E0 261: Database Management Systems Oct 2018
Lecture on Big Data Systems

**RESEARCH
EXPERIENCE**

- TATA Research Development and Design Center (TRDDC), India Sep 2013 – Apr 2014
- Research Intern
 - Mentor: Prasad Bokil, Ulka Shrotri, and R. Venkatesh
 - Designed and implemented tool for generating and evaluating quality of structural test cases for C Programs

**INDUSTRY
EXPERIENCE**

- PubMatic, India Jun 2014 – Jul 2016
- Operations Engineer
 - Worked on design, implementation and maintenance of reporting and ad-hoc data pipelines for processing terabytes of raw data flowing through PubMatic platform using Apache Spark, Storm, Casandra, Hive and MapReduce.
 - Single Point-of Contact (SPOC) for monthly billing reconciliation and discrepancy

REFERENCES

Available upon request

[CV compiled on 2019-10-29]