Swapnil Gandhi

Indian Institute of Science, Bangalore

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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)

  Courses: Scalable Systems for Data Science, Topics in Database Systems, Database Management Systems, Linear Algebra and Applications, Introduction to Scalable Systems, Research Methods

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", Under-Review at 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

- Received a \$1750 travel scholarship from ACM SIGOPS for attending the   Aug 2019
  27th ACM Symposium on Operating Systems Principles (SOSP) in Ontario, Canada
- Won 12th IEEE International TCSC Scalable Computing (SCALE) Challenge   May 2019
  For "Dynamic Scaling of Video Analytics for Wide-area Tracking in Urban Spaces"
- 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

- Big Data Operations Developer
  - Worked on design and implementation 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.

[CV compiled on 2019-09-29]