

# Ankur SHARMA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH:	Allahabad, India   25 March 1991
ADDRESS:	Austr. 38a, 66386 Sankt Ingbert, Saarland, Germany
PHONE:	+49 17 3300 7771
EMAIL:	<a href="mailto:ankur@chainifydb.com">ankur@chainifydb.com</a>

## WORK EXPERIENCE

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APR 2016 - CURRENT	Research Assistant at SAARLAND UNIVERSITY, Saarbruecken Big Data Analytics Group Worked on utilizing main-memory and algorithmic optimizations to improve transaction processing in Relational Databases and Permissioned-Blockchain Systems.
SEP 2013 - OCT 2014	Student Research Assistant at TU Dresden, Germany Centre for Information Services and High Performance Computing Performed performance analysis and optimization of high performance applications.
MAY - JULY 2013	Summer Research Intern at TU Dresden, Germany Centre for Information Services and High Performance Computing Analyzed performance bottlenecks of Inchworm sequence assembler, and suggested possible optimizations and parallelization of assembly algorithm.
MAY - JULY 2012	Summer Research Intern at IIT Bombay, India Designed and developed a user-friendly tool for editing XML files on android devices.

## EDUCATION

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APR 2016 - CURRENT	Ph.D. in COMPUTER SCIENCE, Saarland University, Saarbruecken Big Data Analytics Group Advisor Prof. Dr. Jens Dittrich
OCT 2014 - APR 2016	Ph.D. (Preparatory Phase) in Saarland University, Saarbruecken Saarbruecken Graduate School of Computer Science Cumulative GPA: 1.8 (Scale: 1.0 - 5.0, Best GPA: 1.0)
OCT 2013 - SEP 2014	Exchange Student at TU Dresden, Germany
AUG 2010 - SEP 2014	Bachelor of Technology at National Institute of Technology, Sikkim Thesis Performance Tuning and Parallelization of Inchworm Sequence Assembler Advisor Prof. Dr. Wolfgang Nagel (TU Dresden) Cumulative GPA: 9.15/10.0 (Scale: 1.0 - 10.0, Best GPA: 10.0)

## SCHOLARSHIPS AND AWARDS

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OCT 2014 - MAR 2016	Graduate School Scholarship, Saarland University
SEP 2014	Institute's Gold Medal, NIT Sikkim
SEP 2014	Computer Science Department's Gold Medal, NIT Sikkim
MAY 2013	DAAD WISE Fellowship
MAY 2012	Summer Research Fellowship, IIT Bombay, India

## PATENTS AND GRANTS

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PATENT	„Secure and Transparent Cross-organization Data Sharing via Permissioned Blockchain Technology.” (Filed provisionally by the Saarland University)
GRANT	850,000 Euros for 1 year under the „StartUpSecure” program of the BMBF for commercializing the ChainifyDB project.

## PUBLICATIONS

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- [1] Felix Martin Schuhknecht, Ankur Sharma, Jens Dittrich, and Divya Agrawal. Chainifydb: How to blockchainify any data management system. *arXiv preprint arXiv:1912.04820*, 2019.
  - [2] Ankur Sharma, Felix Martin Schuhknecht, Divya Agrawal, and Jens Dittrich. Blurring the lines between blockchains and database systems: the case of hyperledger fabric. In *SIGMOD Conference 2019, Amsterdam, The Netherlands, June 30 - July 5, 2019.*, pages 105–122, 2019.
  - [3] Ankur Sharma, Felix Martin Schuhknecht, Divya Agrawal, and Jens Dittrich. How to databasify a blockchain: the case of hyperledger fabric. *arXiv preprint arXiv:1810.13177*, 2018.
  - [4] Ankur Sharma, Felix Martin Schuhknecht, and Jens Dittrich. Accelerating analytical processing in MVCC using fine-granular high-frequency virtual snapshotting. In *SIGMOD Conference 2018, Houston, TX, USA, June 10-15, 2018*, pages 245–258, 2018.
  - [5] Ankur Sharma, Felix Martin Schuhknecht, and Jens Dittrich. Accelerating analytical processing in mvcc using fine-granular high-frequency virtual snapshotting. *arXiv preprint arXiv:1709.04284*, 2017.
  - [6] Ankur Sharma, Felix Martin Schuhknecht, and Jens Dittrich. The case for automatic database administration using deep reinforcement learning. *CoRR*, abs/1801.05643, 2018.
  - [7] Felix Martin Schuhknecht, Jens Dittrich, and Ankur Sharma. RUMA has it: Rewired user-space memory access is possible! *PVLDB*, 9(10):768–779, 2016.

## LANGUAGES

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HINDI	Mother-tongue
ENGLISH	Fluent
GERMAN	Basic Knowledge

## PROGRAMMING SKILLS

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Languages	5000+ LOC: Go, C++, JAVA 1000+ LOC: C, JAVASCRIPT, PYTHON, BASH
Familiar Technologies	GIT, SVN, SPARK, FLINK, KAFKA

## PROFESSIONAL ACTIVITIES

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External Reviewer	VLDB’ 16, SIGMOD’ 17, CIKM’ 17, VLDB’ 17 (Demo), VLDB’ 18 SIGMOD’ 18, CIKM’ 18, BTW’ 19
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## TEACHING

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Winter Semester 2019/2020	Teaching Assistant (Database Systems Seminar and Pro-Seminar)
Summer Semester 2019	Teaching Assistant (Database Systems Seminar)
Winter Semester 2018/2019	Chief Teaching Assistant (Database Systems Core Lecture)
Summer Semester 2018	Teaching Assistant (Database Systems Seminar)
Winter Semester 2017/2018	Teaching Assistant (Database Systems Core Lecture)
Summer Semester 2017	Chief Teaching Assistant (Database Systems Seminar)
Winter Semester 2016/2017	Chief Teaching Assistant (Database Systems Core Lecture)