Sandeep **Kumar**

PHD STUDENT

Room 309, SIT Building, IIT Delhi Campus, Hauz Khas-110016, New Delhi, India

 (+91) 8277361995 | sandeep.kumar@cse.iitd.ac.in, sandeep007734@gmail.com | https://sandeep007734.github.io/

Education

Indian Institute of Technology Delhi   *Delhi, India*

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE   *Jul. 2017 - Exp. Aug. 2021*

- Advised by Prof. S. R. Sarangi

Indian Institute of Science   *Bangalore, India*

MASTER OF ENGINEERING IN COMPUTER SCIENCE   *Jul. 2011 - Aug. 2013*

- Advised by Prof. K. Gopinath

Guru Gobind Singh Indraprastha Univeristy,   *New Delhi, India*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE   *Jul. 2007 - Aug. 2011*

Research Interest

Security, Distributed and Parallel Systems, Operating Systems, Mobile Systems, IOT, Machine Learning.

Publications

1. **Sandeep Kumar**, Diksha Moolchandani, Takatsugu Ono and Smruti Sarangi. *F-LaaS: A Control-Flow-Attack Immune License-as-a-Service Model* . In **IEEE SCC**, Milan, Italy, 2019.

2. **Sandeep Kuma**r, Poorna Talkad Sukumar, K. Gopinath, Dr. Jayanth Sampath, Laura Rocchi, Suyameendra Kulkarni. *Towards a Portable Human Gait Analysis & Monitoring System* . In **IEEE ICSigSys**, Bali, Indonesia, 2018.

3. **Sandeep Kumar**, Sindhu Padakandla, Chandrashekar L, Priyank Parihar, Gopinath K, Shalabh Bhatnagar. *Scalable Performance Tuning of Hadoop MapReduce: A Noisy Gradient Approach* . In **IEEE Cloud**, Hawaii, USA, 2017.

Experience

Indian Institute of Science   *Bangalore, Karnataka*

RESEARCH ASSOCIATE   *Sept 2014- July 2017*

- Worked on auto tuning of Hadoop Map-reduce using Stochastic algorithms and Human gait analysis. Details in the publication section.

Dell R&D   *Bangalore, India*

SOFTWARE DEVELOPMENT ENGINEER   *Jul 2013-Jun 2014*

- Responsible for BIOS configuration and system management tools, DCC (Dell Command Configure) and OMCI (Open Manage Client Instrumentation) respectively
- GUI changes to DCC.

Research Projects

Toy C Compiler

COURSE PROJECT FOR COMPILER DESIGN   *8*

- Implemented a Toy C Compiler using Flex Bison and LLVM as part of the Compiler Course Work. It contains LLVM IR code generation and implementation of some basic optimizations.

References

- **Smruti R Sarangi**, Associate Professor, Department of Computer Science, Indian Institute of Technology, Delhi, India. srsarangi@cse.iitd.ac.in
- **K.Gopinath**, Professor Computer Science and Automation, Indian Institute of Science. gopi@csa.iisc.ernet.in