

Ruchi Saha

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EDUCATION	Dual Degree (Btech + Mtech) Computer Engineering CGPA: 8.89/10 (2015-2020) Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram Class XII Percentage: 91.8, Kendriya Vidyalaya AFS Uttarlai (2014) Class X CGPA: 10/10, Kendriya Vidyalaya AFS Uttarlai (2012)
RESEARCH EXPERIENCE	Resource-Efficient and High-Throughput FPGA-based Multi-match Packet Classification Architecture for NIDS (Final Year Project) IIITDM Kancheepuram (Nov'19-July'20) Supervised by Dr Noor Mahammad SK , supported by Ministry of Electronics and Information Technology, Govt. of India Network Processor (Research Intern) IIITDM Kancheepuram (July-Oct'19) Designed an assembly language, assembler, simulator plus emulator and a firmware for a customized Hardware. Supervised by Dr Noor Mahammad SK Cryptography (Research Intern) IDRBT, Hyderabad (May-Sep'19) Researched on Data Integrity and Deduplication in fog to cloud based IoTs, Supervised by Dr P Syam Kumar Network System (Research Intern) IIITDM Kancheepuram (May-July'17) Optimized hardware for IPV4 packet forwarding engine, Supervised by Dr Noor Mahammad SK
TEACHING EXPERIENCE	Teaching Assistant IIITDM Kancheepuram (July'19-July'20) Courses Assisted: Digital and Analog Design, Design and Analysis of Algorithms. Assisted students in labs. Assisted professors in creating and evaluating assignments, projects and tests.
INDUSTRIAL EXPERIENCE	Engineer, Backend Server Samsung Research Institute, Delhi (Jan'21-Present) Worked in the domain of Cloud and Database Management. Designed and deployed programs in multi-processing environment. Network Analyst (Intern) GAVS Technologies, Chennai (May-July'18) Worked in the field of automation and networking. Worked with Information Management Systems. Studied and customised open source network monitoring softwares.
ACHIEVEMENTS	Ford CSAM IoT Security Paper Presentation , Won Best Paper Award (2019) GATE (Graduate Aptitude Test in Engineering) , All India Rank 1855 (2019) International Maths Olympiad , School Rank 2nd (2010) International Maths Olympiad , School Rank 4th (2009)
EXTRA-CURRICULAR	Technical Affairs Coordinator , IIITDM Kancheepuram (2016- 2017) Volunteer (organizing team)-World Space Week , ISRO-SHAR (4-10 Oct 2016) School Captain , Kendriya Vidyalaya AFS Uttarlai (2013 - 2014) School Vice Captain , Kendriya Vidyalaya AFS Uttarlai (2012-2013)
COMPETENCES	Languages Hindi (<i>native</i>), English Skills and Tools C/C++, Scala, Python, Postgres, git, Verilog, Xilinx ISE, \LaTeX