

# Ruchi Saha

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EDUCATION	<b>Dual Degree (Btech + Mtech) Computer Engineering</b> CGPA: 8.89/10 (2015-2020) Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram <b>Class XII</b> Percentage: 91.8, Kendriya Vidyalaya AFS Uttarlai (2014) <b>Class X</b> CGPA: 10/10, Kendriya Vidyalaya AFS Uttarlai (2012)
RESEARCH EXPERIENCE	<b>Resource-Efficient and High-Throughput FPGA-based Multi-match Packet Classification Architecture for NIDS (Final Year Project)</b> IIITDM Kancheepuram (Nov'19-July'20) Designed a multi-match packet classification architecture for header inspection in NIDS. Work submitted to the journal of Computer Systems Science and Engineering (awaiting review) (A short summary of work <a href="#">here</a> ). Supervised by <a href="#">Dr Noor Mahammad SK</a> , supported by Ministry of Electronics and Information Technology, Govt. of India <b>Network Processor (Research Intern)</b> IIITDM Kancheepuram (July-Oct'19) Designed an assembly language, assembler, simulator plus emulator and a firmware for a customized Hardware. Supervised by <a href="#">Dr Noor Mahammad SK</a> <b>Cryptography (Research Intern)</b> IDRBT, Hyderabad (May-Sep'19) Researched on Data Integrity and Deduplication in fog to cloud based IoTs, Supervised by <a href="#">Dr P Syam Kumar</a> <b>Network System (Research Intern)</b> IIITDM Kancheepuram (May-July'17) Optimized hardware for IPV4 packet forwarding engine, Supervised by <a href="#">Dr Noor Mahammad SK</a>
TEACHING EXPERIENCE	<b>Teaching Assistant</b> 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	<b>Engineer, Backend Server</b> Samsung Research Institute, Delhi (Jan'21-Present) Worked in the domain of Cloud and Database Management. Designed and deployed programs in multi-processing environment. <b>Network Analyst (Intern)</b> 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	<b>Ford CSAM IoT Security Paper Presentation</b> , Won Best Paper Award (2019) <b>GATE (Graduate Aptitude Test in Engineering)</b> , All India Rank 1855 (2019) <b>International Maths Olympiad</b> , School Rank 2nd (2010) <b>International Maths Olympiad</b> , School Rank 4th (2009)
EXTRA-CURRICULAR	<b>Technical Affairs Coordinator</b> , IIITDM Kancheepuram (2016- 2017) <b>Volunteer (organizing team)-World Space Week</b> , ISRO-SHAR (4-10 Oct 2016) <b>School Captain</b> , Kendriya Vidyalaya AFS Uttarlai (2013 - 2014) <b>School Vice Captain</b> , Kendriya Vidyalaya AFS Uttarlai (2012-2013)
COMPETENCES	<b>Languages</b> Hindi ( <i>native</i> ), English <b>Skills and Tools</b> C/C++, Scala, Python, Postgres, git, Verilog, Xilinx ISE, $\LaTeX$