

# 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> <i>IIITDM Kancheepuram</i> (Nov'19-July'20) Supervised by <b>Dr Noor Mahammad SK</b> , supported by Ministry of Electronics and Information Technology, Govt. of India  <b>Network Processor (Research Intern),</b> <i>IIITDM Kancheepuram</i> (July-Oct'19) Designed an assembly language, assembler, simulator plus emulator and a firmware for a customized Hardware. Supervised by <b>Dr Noor Mahammad SK</b>  <b>Cryptography (Research Intern),</b> <i>IDRBT, Hyderabad</i> (May-Sep'19) Researched on Data Integrity and Deduplication in fog to cloud based IoTs, Supervised by <b>Dr P Syam Kumar</b>  <b>Network System (Research Intern),</b> <i>IIITDM Kancheepuram</i> (May-July'17) Optimized hardware for IPV4 packet forwarding engine, Supervised by <b>Dr Noor Mahammad SK</b>
TEACHING EXPERIENCE	<b>Teaching Assistant,</b> <i>IIITDM Kancheepuram</i> (July'19-July'20) Courses Assisted: Digital and Analog Design, Design and Analysis of Algorithms. Assisted students in labs. Assisted Profs in creating and evaluating assignments, projects and tests.
INDUSTRIAL EXPERIENCE	<b>Engineer, Backend Server,</b> <i>Samsung Research Institute, Delhi</i> (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> <i>GAVS Technologies, Chennai</i> (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> <i>IIITDM Kancheepuram</i> (2016- 2017) <b>Volunteer (organizing team)-World Space Week by ISRO-SHAR</b> (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, $\LaTeX$