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# RICHA SHARMA

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Date of Birth:26/12/1995

## INTERNSHIPS

Project Trainee	Bhabha Atomic Research Center[BARC]	Summer 2016
Division of Remote Handling and Robotics		
<ul style="list-style-type: none"><li>Developed a Brain Computer Interface for KUKA robotic arm by EEG controller.</li><li>Implemented CSP algorithm to segregate mixed signals of EEG through MATLAB</li><li>Developed Neural Networks in Python and trained them using deep learning concepts.</li></ul>		

## EDUCATION

Delhi	Netaji Subhas Institute of Technology	Aug 2013 –Jun 2017
<ul style="list-style-type: none"><li>Pursuing B.E in Electronics and Communications with GPA (of 7 semesters) 7.0.</li><li>Undergraduate Research: <b>Quantum Computers</b>: Researched next generation of SRAMs. Improving speeds of SRAMs by replacing CMOS with RTDs. <b>Linux</b> : Distributive and cloud computing over linux based clusters.</li></ul>		

PREVIOUS EDUCATION	April 2001- May 2013
<ul style="list-style-type: none"><li>Passed 12<sup>th</sup> from Ahlcon Public School, Mayur Vihar (CBSE) with 91.60%</li><li>Passed 10<sup>th</sup> from K.V.A.G.C.R. Colony with 10.0 CGPA and Merit Certificate.</li></ul>	

## EXTRA CO-CURRICULAR ACTIVITIES AND DISTINCTIONS

- Won Debating Competition, Singing and Elocution Competitions
- Cleared Science and Maths Olympiads; NSO,IMO

## TECHNICAL EXPERIENCE

### Projects

- Web Application Servers Configuration**: Designed and implemented web-application server from secure barebones server.
  - Configured an apache HTTP server and PostgreSQL database server .
  - Written Python WSGI application to query the database.
  - Configured firewall to secure barebones server system; implemented strong authentication mechanisms using linux file permissions.
- SQL and Database Design**: Developed a database Schema using Python DB-API module to store the game matches between players of Swiss tournament. Written code to query this data and determine the winner.

## INTERESTS

Machine Learning; Quantum Computation; Graph Theory and Algorithms

## SKILLSETS

- Technologies**: Network Programming,Database Design,Object-Oriented Design,HTTP1/HTTP2 security fundamentals.
- Languages**: Python,C++,JAVA,Javascript,HTML and CSS;
- Software Platforms**: Python IDLE; Code Blocks; Matlab; Windows, LINUX
- Software & Technologies**: Text Editor: Sublime Text Editor, Git and Github
- Databases**: PostgreSQL,MySQL