RAHUL JAIN

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ACADEMIC DETAILS

Year	Degree	Institute	CGPA/Percentage
2017-2021	B.Tech in Electrical Engineering	Indian Institute of Technology, Delhi	9.52/10
2017	Class XII, CBSE	Maharishi Vidya Mandir, Jabalpur	92.4%
2015	Class X, CBSE	Tara Convent School, Malerkotla	10/10

SCHOLASTIC ACHIEVEMENTS

- **Secured AIR 304 in JEE Advanced** among 1.6 million candidates.
- **Secured Department Rank 2** in Electrical Engineering Department out of 90 students at end of 3rd Semester.
- Awarded **KVPY Fellowship** by Department of Science and Technology, **Government of India**.
- **IITD Semester Merit Award** for being in top-7% in **3 semesters**.
- State **Top 1%** in NSE Physics; **Secured State Rank 3rd** in National Science Olympiad by SOF.

RELEVANT COURSES DONE AT IITD

Data Structures and Algorithms, **Probability and Stochastic Processes**, **Database Management System**, **Machine Learning*,** Signals and Systems, Digital Electronics, Physical Electronics, Circuit Theory, Control Engineering, Engineering Electromagnetism, Linear Algebra, Calculus, Macroeconomics, Microeconomics*,

(*) - Courses to be completed by summer 2019.

PROJECTS AND INTERNSHIPS

- **1-2-3-4 IRD Startup** under **Prof. Sayan Ranu** & **Prof. Saurabh Bikas Paul**   *Dec'18 to Ongoing*
  - Developed a **machine learning algorithm** to guide an individual the right career on the basis of his skill-set.
  - Creating scripts and programs to extract data from the websites such as Wikipedia.
- **Summer Internship at Docri Start-up** under **Net Sutra Solutions Pvt. Ltd.**   May - July'2018
  - Implementing **rich content text editor** on the webpage using Prose Mirror and JavaScript which allows users to collect images, links, and videos in one file.
  - Designed and implemented algorithms in JavaScript to fetch **Meta data** from the reference links and display them in interactive and convenient manner.
- **Earthquake Distinction System** under **Prof. S. D. Joshi**   *Course Project (July-Nov'18)*
  - Distinguished different types of earthquakes on the basis of their frequency properties.
  - Applied **Dynamic Fourier Transform** and special **methods of spectral estimation** on the seismograms.
- **Posture Enhancing Device** under **Prof. Saakshi Dhanekar**   *July - Oct' 2018*
  - Helps in enhancing posture of the body while studying or working.
  - Prototype designed using Arduino with Bluetooth HC-05 module
  - Use of MYOSA sensors Accelerometer and Gyroscope to determine the posture of body.
  - Built Android Application to track the posture and send notifications to the user.
- **Mobile Phone Tracking System** under **Prof. Amitabha Baagchi**   *August' 2018*
  - Designed a mobile phone tracking system that used trees, linked lists, sets to maintain a **hierarchical call routing structure**. Multithreaded programming along with trees was used to keep track of mobile phones, their status and initiate real time calls in a **dynamic system generating random queries**.
- **Web Search Engine** under **Prof. Amitabha Baagchi**   *October' 2018*
  - Implemented in java using Inverted Index data structure implemented using hash maps to get a list of web page responses on the basis of relevance criteria search query.

TECHNICAL SKILLS

- **Programming Languages**: C/C++/C#, Java, Python, MATLAB, Elixir
- **Software and Libraries**: AutoCAD, Arduino, MS Office, Unity, Photoshop, Android Studio.
- **Web Development**: HTML, CSS, JavaScript, ReactJS, NodeJS and Phoenix Framework, Prose Mirror.

POSITIONS OF RESPONSIBILTY (POR)

- **Technical Executive in Board of Student Publications**   *April, 2018 to Ongoing*
  - Responsible for the creative posters and magazine designs.
  - Conducted various events in the Literati 2018, Literature fest of IIT Delhi.
  - Responsible for hostel publicity and participation.
- **Hostel Representative of Indoor Sports Club**   *April, 2018 to Ongoing*
  - Responsible for maintaining the culture of indoor sports chess, carom and Pool in the Hostel
  by conducting various Intra-Hostel competitions.

EXTRACURRICULAR ACTIVITIES

- **Dance:** 3rd position, **Group Dance, IIT Delhi** 2018; 3rd Position in **Duo+, IIT Delhi, 2018.**
- **Literature Event**: 3rd position in **Potpouri**, quiz based on English Literature.
- **Regular Volunteer at NSS (National Social Service) IITD** in Aarohan and Vidya Teaching Project.
- **Interests:** Chess, Squash, Dance, Coding, Reading.
- **AINA (An Initiative for National Advancement)** IIT Delhi: Regularly go for Swadesh Trip organized by AINA to rural India to help understand the rural base and background of modern India and help realize the true potential of Indian Villages.