

# Raju Roy

3rd Year Undergraduate

Department of Biological Sciences and Bio-Engineering

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## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.Tech	Indian Institute of Technology, Kanpur	6.6/10
2017	CBSE(XII)	BSF Senior Secondary Resi. High School, Kadamtala	83.4%
2015	ICSE(X)	Alphonsa School, Kadamtala	91.2%

## Projects

- **Bank Details Management System::** || Self Project  
Link :: <https://github.com/rajuroy1234/Bank-Details-Management/tree/master>
  - Menu-Driven Program written in C++ that can handle multiple user account details
  - User has the option to choose either between **current** or **savings** bank account type
  - This system helps keep track of the user's balance with each transaction made by the user whether depositing or withdrawing money from the bank
  - After creating the account, user has the option to **alter** user's account number, password, name and even the type of the bank account. Also, user does have the option to **close** user's bank account/s
  - Also added validation for user entered Account number and PIN in order to access these facilities
  - With the help of **fstream** header file datatype, data is converted into a **binary** file format for storage using **ofstream** datatype which can then be converted back to data using **ifstream** datatype
- **Flapping Butterfly::** || Course Project || Prof.: Dr. Anish Upadhayaya  
(Aug 2019 - Nov 2019)
  - **Certificate of Appreciation** for achieving **First** position among all 15 projects in the section
  - Successfully designed a **Butterfly model**; each wing and the thorax have been attached separately to a **synchronized system of gears** such that the model could stimulate the actions of a real flapping butterfly
  - A handle has been attached to its side in order to control the motion/speed of flapping of the butterfly

## Technical Skills

- **Programming Languages:** C++, C, Java, Python(basic),  $\text{\LaTeX}$
- **Web(familiar):** HTML, JavaScript, CSS
- **Database:** SQL
- **Tools and Software:** Visual Studio Code, AutoCAD, Autodesk Inventor, FL Studio(DAW)

## Relevant Courses

- **Programming and Algorithms::**
  - Fundamentals of Computing
  - Data Structures and Algorithms(online)-Udemy
  - Introduction to Electronics
- **Mathematics::**
  - Probability and Statistics
  - Ordinary Differential Equations

## Honors and Achievements

- Among the top 3% of the 1.1 million applicants in JEE Mains 2018
- Secured General Merit rank(GMR) of **4001** and Pharmacy Merit rank(PMR) of **4629** among 1.25 lakh applicants in WBJEE 2018
- **Certificate Of Appreciation** for stupendous performance in ICSE Boards(Class 10) Examination given to meritorious students
- Secured **Gold** in the sport of **Weightlifting** at **Inferno '18** held at IIT Kanpur

## Extra-Curricular Activities

- Participated as a **Drummer** in various musical events like Musical Extravaganza, Acoustic Night, Galaxy '18
- Part of **Inter IIT Cultural Meet 18 and 4.0** representing IIT Kanpur as a leading Drummer
- Performed an **Original Composition** of **Progressive Jazz-Metal** genre at Inter IIT Cultural Meet 4.0
- Part of the **Runner up** intra-hall Cricket match
- **Certificate Of Excellence** for the best **Prefect of the Year** 2014-15 in school