



# Ankur Raj

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M.Sc - Maths And Computing

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc Mathematics & Computing	Indian Institute of Technology, Guwahati	7.40 (Current)	2023-Present
B.Sc (Hons) Mathematics	Banaras Hindu University	7.85	2022
Senior Secondary	CBSE Board	80.80%	2019
Secondary	CBSE Board	9.8 CGPA	2017

## PROJECTS

- ZAPIER Clone** july-August, 2024  
*Personal Project* Github  
– Created a **responsive and dynamic website** that works similar to the actual Zapier website with less features.  
– It has **functionalities** such as whenever comment done on **github**, **webhook triggered a zap** where it does three action **sending solana** to other person and **sending email** to me and other person.  
– it has 5 **module**: 1. **hooks** 2. **database** 3. **processor** 4.**kafka** 5.**worker** and each **zap** work in following order.  
– Key Technologies: **nextJs**, **expressJs**, **prisma**, **postgreSQL**, **monorepo**, **kafka**, **nodemailer**, **Solana-Web3.js**
- ZCODER** Team Size-4 | June-July, 2024  
*Project Head | Coding Club, IIT Guwahati* Website | Github  
– **ZCoder** is a platform which provides users with the ability to **create profiles**, **bookmark coding problems** along with their solutions, and engage in a **collaborative environment** through **commenting** on each other's solutions.  
– It has following **functionalities** such as 1. **Personalised Profiles** - Craft your unique coding identity and connect with others. 2. **Collaborative Learning** - Engage in shared knowledge exchange and feedback on solutions. 3. **Comprehensive Calendar** - Stay updated on upcoming coding contests and events 4. **Rooms** - Where users can interact with each other  
– Key Technologies: **ReactJs**, **ExpressJs**, **NodeJs**, **MongoDb**, **zod**, **jwt**, **axios**, **AWS EC2**, **AWS S3**, **AWS cloudfront**
- Gurukul** Sept 2024 - Present  
*Prof. Ashok Singh Sairam, Dept of Mathematics, IIT Guwahati* Github  
– An **Gurukul** is a **Software** for **delivering**, **tracking** and **managing**.  
– It has several **features** such as **managing courses**, **users** and their roles; **assessment**; user **feedback** and **evaluation**.  
– Some **functionalities** are follows 1.An instructor able to set **Quiz**, **Assignments** and **Survey** during an **ongoing** class.  
– Technologies used: **HTML**, **CSS**, **PHP**, **MySQL**

## TECHNICAL SKILLS

- Programming Languages**: C/C++, Python\*, MATLAB\*
- Web Technologies**: HTML, CSS, Javascript & Typescript, PHP
- Tools/Frameworks**: ReactJs, Nextjs, NodeJs, ExpressJs, Monorepo, Prisma, Hono\*
- Database**: MongoDB, postgres, MySQL
- Operating Systems**: Windows, Linux
- Miscellaneous**: Git & GitHub, kafka, Docker, AWS\*, Serverless Backend, cloudflare\* \* Elementary proficiency

## KEY COURSES TAKEN

- Computer Science**: Computer Programming(with Lab), Data Structure & Algorithm(with Lab), Database Management System(with Lab), Theory of Computation\*
  - Mathematics**: Disrete Mathematics, Probablity Theory, Optimization Techniques, Numerical Analysis\*, Linear Algebra, Modern Algebra, Complex Analasis
- \* To be completed in Nov 2024

## ACHIEVEMENTS

- The Joint Admission Test for M.Sc(JAM 2023)**, Secured **AIR 154** among 13333 candidates in IIT JAM Mathematics.
- Joint Entrance Examination**, **Qualified** Jee Mains with **94.62 percentile**. 2020
- Coding**, solved **600+** problem of **DSA** across platforms like **leetcode**, **GFG** & **Coding Ninjas**.
- Olympiad**, Secured **rank 1** in Science and Mathematics at school level. 2015,2016

## EXTRACURRICULAR

- Mentor**, Currently mentoring juniors under the **Peer Mentorship Program** as a part of Saathi Club.
- Marathon Runner**, Participated and finish off **Cross Country Run** Organised by Spirit IITG on occasion of 77th Independence Day. 2023