



Rahul Aggarwal

Roll No.:190103120

B.Tech. - Mechanical Engineering

Minor in Electronics and Communication Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.78 (Current)	2019 - Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	9.00 (Current)	2020 - Present
Senior Secondary	CBSE Board	90.2%	2018
Secondary	CBSE Board	95.0%	2015

EXPERIENCE

- **AgriVision4U** May 2022 - Jul. 2022
Software Development (Backend) Intern www.agrivation4u.com
 - Developed a web portal using **Express.js** and **MongoDB** for students preparing for agriculture related exams.
 - Created **RESTful APIs** for **discussion forum**, **course registration**, **payment**, **Agri-Abhyas** and system to conduct **live** and **virtual** exams and produce the **scorecards** and **ranklist** of the exams.
 - Implemented Google and Facebook **Authentication** using **Passport.js** and **JSON Web Token (JWT)**.

PROJECTS

- **Gymkhana Election Portal 2022** Mar. 2022 - May 2022
Students' Web Committee, IIT Guwahati bit.ly/electioniitg
 - Developed **Blockchain** based secure election portal, used by **4000+** students for the Gymkhana Elections IITG.
 - Implemented the **voting system**, including collecting votes, **encrypting** them, and then submission to the **Blockchain**.
 - Key technologies used are **React**, **Redux** for state management, **Tailwind** for CSS, **Django** for backend.
- **Students Affairs Board Website** Apr. 2021 - Jul. 2021
Project Lead - Students' Web Committee, IIT Guwahati bit.ly/SAPortal
 - Developed a portal for the Students' Affairs Board, IITG using the **MERN** stack and **Passport.js(Outlook OAuth)**.
 - Created parts of the admin dashboard that acts as the **content management system** of the website.
 - Implemented user pages and the admin side UI using **React**, **Redux** and **Tailwind CSS**.
- **Chat Room** Sep. 2022
Personal Project bit.ly/chatrtc
 - Developed a video-chat application based on mesh architecture using **WebRTC** and web-sockets (**Socket.IO**).
 - Implemented the features like **video call**, **group chat** and **screen sharing** in the application.
 - Key technologies used are **Express.js**, **React**, **Redux** for state management and **Framer motion** for animations.
- **Covid - 19 Vaccination Portal** Jul. 2021
Students' Web Committee, IIT Guwahati bit.ly/vaccineiitg
 - Developed a portal which is used by **8000+** residents of IIT Guwahati for their Covid-19 vaccine registration.
 - Developed **registration forms** for slot booking and **mailing service** for sending slot booking confirmation mail.
 - Key technologies used are **Django** for backend, **Tailwind** for CSS and **SQL** database.

POSITIONS OF RESPONSIBILITY

- **General Secretary, Students' Web Committee,SGC 2022-23, IIT Guwahati** May 2022 - Present
 - Spearheaded an elite 3-tier team consisting of 11 core team members , 31 web and app developers, 5 product designers and 6 product managers. Holding the severe responsibility of smooth functioning and maintenance of products built by SWC like **Placement Portal**, **Covid - 19 Vaccination Portal**.

ACHIEVEMENTS

- **Google Kick Start 2022:** Secured **Global Rank 515** in Round F and **Global Rank 796** in Round G.
- Achieved highest rating of **1644 (IndianPirate)** on **Codeforces** and **1872 (rahul14600)** on **CodeChef**.
- Selected for **Amazon ML Summer School 2022** after qualifying the selection test.
- Secured **Global Rank 32** amongst **12,400** participants in **CodeChef Starters 23 (Div. 3)**.
- Secured **Bronze medal** in Mercari's large scale system design hackathon in **InterIIT TechMeet 2022**.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python*
- **Web Technologies:** HTML, CSS, JavaScript, Node.js, Express.js, React, Django*
- **Database Management:** MongoDB, MySQL

* Elementary proficiency

KEY COURSES TAKEN

- **Computer Science:** Algorithmic Toolbox, Data Structures, Programming Fundamentals, Introduction to Computing (Theory & Lab), Machine Learning, Deep Learning
- **Mathematics:** Real Analysis & Multivariable Calculus, Linear Algebra & Ordinary Differential Equations