

# Anurag Ranjan

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## Software Developer

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Proficient in crafting robust, scalable solutions. I am dedicated to contribute my skillset to foster a collaborative and dynamic work environment, consistently striving for the advancement of team goals, I am committed to continuous improvement, investing time and effort into refining my skills to deliver impactful results. Seeking for entry level roles to contribute towards industry.

## Education

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**Nitte Meenakshi Institute of Technology**, Master of Computer Applications Bengaluru | 2022 – 2024

- GPA: 8.5/10
- **Coursework:** Object Oriented Programming (**Java**), Cloud Computing , Web Development (**Javascript** , **React.js** , **Node.js** , **MongoDB**), Python, DBMS, Data Structures and Algorithms, Mobile Applications

**MMHAPU**, Bachelor of Computer Applications

Patna | 2018 – 2021

- GPA: 7.8/10
- **Coursework:** Computer Fundamentals , Computer Networking, C++ , MySQL, Java

## Skills

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**Technical Skills:** Java, JavaScript, React.js, Node.js, Express.js, PostgreSQL, MongoDB, Git, Web Development, Software Development

**Software:** VS Code, Microsoft SQL Server

## Experience

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**Software Development Intern**, Flocci Technologies Private Ltd.

May 2024 – Aug 2024

### Achievements

- Designed and implemented an application for creating academic year timetables for schools and colleges.
- Developed a real-time polling and analysis system with dynamic dashboards for continuous poll creation and voting.

### Responsibilities

- Utilized Node.js and Express.js to develop robust backend APIs for business logic and application functionality.
- Created and optimized database schemas for PostgreSQL and MongoDB, ensuring efficient data storage and retrieval.
- Leveraged React.js and Vite.js to design and build responsive, user-friendly interfaces, enhancing user experience.
- Integrated WebSocket connections using Socket.io for real-time client-server communication.

**Technologies Used :** React.js, Node.js, Express.js, Socket.io, Bcrypt, JWT, Javascript, PostgreSQL, MongoDB

## Projects

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### Flocci Time-Sheets

#### Overview

Developed an automated timetable generator that schedules classes for an entire academic year, allocating teachers and subjects for schools and colleges.

#### Contribution

- Implemented dynamic teacher allocation algorithms that manage availability, prevent double-booking, and ensure optimal scheduling.
- Automated the generation of daily and weekly timetables, incorporating error handling to manage scheduling conflicts and unavailable resources.
- Architected database schema to manage teacher availability, subject details, and class schedules, facilitating scalable and efficient data operations.
- Designed responsive User Interface for users to generate, view, and adjust timetables seamlessly, ensuring a smooth and intuitive experience.

**Technologies Used:** Node.js, Express.js, PostgreSQL, React.js, Javascript

## **FLocci Polls**

### **Overview**

Developed a real-time polling system featuring a personalized dashboard for continuous poll creation, voting, and real-time analysis.

### **Contribution**

- Engineered dynamic RESTful APIs to drive core polling functionalities, ensuring seamless poll creation, voting, and real-time result aggregation.
- Leveraged Socket.io to implement WebSocket connections, allowing for continuous voting and instantaneous dashboard updates, providing users with real-time results.
- Enhanced database interaction by optimizing API structure and reusability, significantly reducing the number of queries throughout the poll creation, voting, and viewing lifecycle.
- Architected and implemented a hybrid database schema using PostgreSQL and MongoDB to manage polling data, ensuring scalability and efficient data retrieval.
- Designed a responsive, production-grade user interface, allowing users to create polls, vote, and view real-time results seamlessly.
- Integrated React-charts to present polling data and analysis in a clear, interactive format.

**Technologies Used:** Node.js, Express.js, React.js, Socket.io, React-charts, JWT, Bcrypt, Javascript

## **Certifications**

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<b>Javascript Intermediate :</b> Hackerrank	certificate
<b>Cloud Computing and Distributed Systems:</b> NPTEL	certificate

## **Languages**

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English

Hindi

Bengali