

Anurag Ranjan

Bengaluru | kumaranuragranjan@gmail.com | +918210365540

<https://www.linkedin.com/in/anurag-ranjan-9b90ba237> | github | portfolio

Software Developer

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

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

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

Software: VS Code, Microsoft SQL Server

Experience

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

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

<https://polls.flocci.in>

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

Javascript Intermediate : Hackerrank

certificate

Cloud Computing and Distributed Systems: NPTEL

certificate

Languages

English

Hindi

Bengali