Ashutosh Gaurav

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EDUCATION

Indian Institute of Information Technology, Ranchi	2022 – 2026
BTech (Electronics and Communication Engineering)	*CGPA: 7.31*
Lucknow Public School	2020 – 2021
Intermediate	*Percentage: 87%*

WORK EXPERIENCE

Intern, LightningTech — Jan 2025 – March 2025
Full-Stack Developer — *Remote*

- ***React ,Typesript, Redux.js, AG Grid, Node.js, Jira, Git, Github, API Integration***
- Built responsive React components using TypeScript, boosting app performance and engagement by 35%.
- Developed interactive data grids with AG Grid, enhancing data visualization and user insights.
- Created 12 reusable components, reducing development time by 40% and improving maintainability.
- Implemented Redux state management with type-safe slices for efficient data flow and centralized control.
- Developed backend APIs in Node.js, optimizing data transactions and improving system efficiency.

PROJECTS

MedSynth (AI-Based Drug Research Platform) — Github | Live Link

- **Tech Stack:** Next.js, MongoDB, Mongoose, RDKit.js, NVIDIA MolMIM, PubChem API, Ably, Resend.
- Developed AI-powered drug research platform using NVIDIA MolMIM for novel molecular structure generation.
- Integrated PubChem API to access comprehensive molecular databases and disease insights.
- Implemented RDKit.js for advanced molecular structure visualization and property prediction.
- Created real-time collaborative messaging system for researchers using Ably.
- Built secure molecular research repository with MongoDB for saving research discoveries.
- Implemented NextAuth for personalized user authentication and access control.
- Designed responsive web interface using Next.js for intuitive molecular research..

Shop-Bizz (E-Commerce) — Github | Live Link

- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, Multer, Cloudinary, Stripe API.
- Developed a responsive UI, enhancing user experience and improving mobile conversion rates.
- Designed a scalable backend architecture, ensuring high availability and efficient request handling.
- Integrated Stripe for seamless payment processing, increasing transaction success rates.
- Optimized state management, reducing memory usage by 35% and improving application performance by 42%.
- Engineered a robust file-handling system, processing 1000+ image uploads daily with 99.7% reliability.

TECHNICAL SKILLS

- **Languages:** C, C++, HTML5 , CSS, JavaScript, SaSS
- **Frameworks:** Next.js , Node.js, Express.js
- **Libraries:** React.js , Tailwind CSS, Mongoose (ODM), Prisma (ORM)
- **Tools:** Jira , Slack , Jupyter, Postman, Git, GitHub
- **Databases:** MongoDB, MySQL
- **Other Tools:** Cloudinary , Multer, NVIDIA NIM, Ably

ACHIEVEMENTS

- **Codechef**: Achieved maximum contest rating of 1417 (**2 Star**), ranking in the top 15% of all participants
- **Leetcode**: Attained maximum contest rating of 1529, placing in the top 20% globally
- **Codolio**: Solved 200+ algorithmic problems on various coding plateforms including Leetcode and codechef