Ujjwal Rai

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Education

Government Polytechnic College **Ghaziabad, Uttar Pradesh**
Diploma in Information Technology *September 2023 – July 2026*
- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Web Development, Software Engineering

Technical Skills

Languages: JavaScript, HTML5, CSS3, SQL, C++, Python
Frontend Technologies: React.js, Redux, Material-UI, Tailwind CSS, Bootstrap, Responsive Web Design,Next.js(learning)
Backend Technologies: Node.js, Express.js, RESTful APIs, JWT Authentication,Firebase(learning)
Databases: MongoDB, MySQL, Firebase Realtime Database
Developer Tools: Git, GitHub, VS Code, Postman, npm, Webpack, Netlify, Vercel
Core Competencies: MERN Stack Development, UI/UX Design, Agile Methodologies, Problem Solving, Team Collaboration

Projects

Full-Stack E-Commerce Platform | *MongoDB, Express.js, React.js, Node.js, Stripe API* **GitHub: RAIUJJWAL-555**
- Architected and deployed a production-ready e-commerce application using the MERN stack, serving as a comprehensive online shopping platform with end-to-end functionality
- Implemented secure user authentication and authorization using JWT tokens and bcrypt password hashing, ensuring data privacy and session management for 100+ concurrent users
- Integrated Stripe payment gateway for secure transaction processing, implementing webhook handlers for payment confirmation and order status updates

MERN Hostel Management Application | *MongoDB, Express.js, React.js, Node.js, Material-UI* **GitHub: RAIUJJWAL-555**
- Engineered a comprehensive hostel management system streamlining administrative workflows and reducing manual data entry by 60% through automation
- Designed and implemented RESTful APIs for efficient data management of student records, fee tracking, room allocation, and application processing with 99.9% uptime
- Created a responsive dashboard displaying real-time room availability, occupancy statistics, and automated fee reminder notifications using React hooks and Context API

Collaborative Task Management Tool | *React.js, Firebase, Material-UI, React Beautiful DnD* **GitHub: RAIUJJWAL-555**
- Developed a real-time collaborative task management application facilitating seamless team coordination and project tracking for distributed teams
- Leveraged Firebase Realtime Database for instant synchronization of task updates, comments, and status changes across all connected clients with sub-second latency
- Integrated Firebase Authentication for secure user management and implemented role-based permissions controlling task creation, editing, and deletion privileges

Website for our college | *MongoDB, Express.js, React.js, Node.js, Material-UI* **GitHub: RAIUJJWAL-555**
- This project is a full-stack College Management Website developed using the MERN Stack (React.js, Node.js). The website is designed to provide a centralized digital platform for students, faculty, and administrators to manage academic and institutional activities efficiently. Currently working on backend of this website.

Online FIR system | *MongoDB, Express.js, React.js, Node.js, Material-UI* **GitHub: RAIUJJWAL-555**
- Ongoing these days

Certifications & Achievements

Google Cloud Generative AI Certificate: https://tinyurl.com/ynnzjfuu
Microsoft GitHub Copilot Certificate: https://tinyurl.com/2s2rkajz
AWS's Solutions Architecture Job simulation Certificate: https://lnkd.in/$g_B aS55N$
Industrial Training – Full Stack Development: https://tinyurl.com/32n9nmjr
MERN Full Stack Development Course: https://lnkd.in/gfkDwrAb
MongoDb Course: With some opertaion: https://tinyurl.com/3kfnfseu

- Completed industrial training focused on real-world web development projects

- Worked on frontend and backend modules under industry mentors

- Gained exposure to software development lifecycle and team collaboration