

# RITTIK CHAKRABORTY

## Full-Stack Web Developer

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### PROFESSIONAL SUMMARY

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Full-Stack JavaScript Developer with hands-on experience building scalable web applications using the MERN stack, Next.js, WebRTC, and real-time communication technologies. Skilled in developing responsive frontend architectures, secure backend systems, and production-style user workflows with a focus on clean, maintainable code and practical problem-solving.

### TECHNICAL SKILLS

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**Frontend:** HTML5, CSS3, JavaScript (ES6+), React.js, Zustand, Tailwind CSS, Bootstrap, Material UI

**Backend:** Node.js, Express.js, Next.js, Socket.io, WebRTC, REST APIs, JWT Authentication

**Database:** MongoDB, Mongoose, MySQL

**Tools & Platforms:** Git, GitHub, VS Code, Vercel, Render, MongoDB Atlas, Cloudinary, Aiven Cloud, Brevo SMTP

### PROJECTS

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#### Zimpeer | Free Secure Browser Video Meetings — [Live Demo](#) | [GitHub](#)

- Independently conceived and led end-to-end development of a full-stack browser-based real-time video conferencing platform supporting 4+ concurrent participants per room using WebRTC, Socket.io, React, and Node.js.
- Implemented 12+ real-time communication workflows including screen sharing, in-meeting chat, file sharing, JWT authentication, duplicate-session protection, and participant/host moderation controls — documenting each workflow clearly for maintainability and future contributors.
- Engineered a scalable room-based communication architecture with 12+ socket event handlers, 18 reusable UI components, Zustand state management, and cloud deployment using Vercel, Render, and MongoDB Atlas.

#### RBAC Ticket Manager — [Live Demo](#) | [GitHub](#)

- Developed a full-stack MERN ticket management system with JWT authentication and role-based access control (Admin/User), supporting complete ticket lifecycle workflows across 4 status stages.
- Independently designed and documented 16+ secure REST API endpoints with Swagger documentation — structured to ensure clear developer onboarding and discoverability — using Node.js, Express, and MongoDB.
- Built a responsive React dashboard with role-specific access, reusable components, and production deployment on Vercel, Render, and MongoDB Atlas.

#### Enterprise Referral Platform — [Live Demo](#) | [GitHub](#)

- Independently architected and delivered a full-stack enterprise-style referral and lead management platform with 13 responsive sections and dual onboarding workflows through quick and detailed inquiry forms.
- Implemented end-to-end lead handling using Next.js, MongoDB, and SMTP workflows, including web analytics, lead persistence, admin notifications, automated user confirmation emails, and real-time submission feedback.
- Enhanced the reference design with improved UI/UX interactions, reusable component architecture, responsive optimization, and production deployment using Vercel and Atlas.

### EDUCATION

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#### Bachelor of Technology (B.Tech) — Electrical Engineering

Aliah University | 2020 – 2023 | CGPA: 7.73

#### Diploma in Electrical Engineering

North Calcutta Polytechnic / WBSCT&VE&SD | 2015 – 2018 | CGPA: 7.9

### CERTIFICATIONS

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- Full-Stack Web Development — Bluelime Learning Solutions (Udemy)
- Python Programming — Kaggle