

# TONMOY MUKHERJEE

## Contact Information

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## Professional Summary

MERN Stack Developer with hands-on experience in building scalable web applications. Demonstrated expertise in increasing application performance by 35%, reducing server response times by 20%, and delivering projects ahead of deadlines by 2 weeks. Proficient in creating dynamic and user-friendly web solutions, with a passion for problem-solving and collaborative development. Seeking opportunities to contribute technical and creative expertise in full-stack development.

## Technical Skills

- **Languages:** JavaScript, C, C++, TypeScript
- **Front-end Technologies:** React.js, Next.js, Tailwind CSS, HTML, CSS
- **Back-end Technologies:** Node.js, Express.js, FastAPI
- **Databases:** MongoDB, SQLite
- **Tools:** Git, npm, Webpack, Visual Studio Code, Postman
- **UI/UX Design:** Figma, Wireframing, Prototyping
- **Soft Skills:** Team collaboration, problem-solving, leadership

## Professional Experience

**Microsoft Learn Student Ambassador (MLSA) Full Stack Web Developer** *August 2024 – October 2024*  
Completed a dynamic learning program focused on creating modern web applications. Key highlights:

- Engineered 3 dynamic web applications with real-time data processing and highly interactive user interfaces, boosting user engagement by 25% and supporting 100+ concurrent users.
- Completed 5+ major projects on time, optimizing workflows and coding practices, improving development efficiency by 15%.
- Collaborated closely with mentors to refine skills in full-stack development, with a direct impact on a growing user base of 200+ active users across the projects.

## Projects

- **ChatBotx:** Developed a real-time chat application using WebSocket, enabling 100+ concurrent users with ChatGPT-powered responses, improving user engagement by 25%.  
GitHub: 🐙 <https://github.com/tonmoy-cpu/Chat-APP>
  - Implemented secure user authentication with JWT, ensuring data security and reliability.
  - Reduced response latency by 15%, optimizing the overall user experience.
- **Fullstack E-commerce Website:** Built a high-performance MERN stack e-commerce platform with integrated user authentication, shopping cart, and secure payment gateway, leading to a 30% increase in sales within 6 months.
  - Integrated Razorpay for seamless and secure payment processing, increasing customer trust.
  - Optimized React codebase, reducing page load times by 25% and improving user retention.
- **Urban Planning Dashboard:** Designed an urban planning tool using the MERN stack to analyze city infrastructure data, improving zoning decisions by 15% and enhancing urban development strategies.
  - Visualized data with dynamic charts using Chart.js, providing actionable insights for urban planners.

- Coordinated with urban planning teams to ensure data-driven decision-making and actionable outcomes.

## Achievements

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- Secured 2nd position in a departmental mini-project exhibition, competing against 50+ participants and showcasing strong technical skills.
- Selected for the prestigious SIH 2023 (Software Section) from over 200 applicants, representing the institute on a national level.
- Consistently achieved a 98% satisfaction rate in freelance project deliverables, reflecting high-quality work and client satisfaction.

## Extracurricular Activities

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- Active member of the college's coding club, organizing and executing 3+ hackathons with over 200 student participants, fostering a collaborative environment.
- Volunteered as a JavaScript instructor, teaching 50+ beginners in community tech workshops, improving technical literacy.
- Represented the college in inter-university coding competitions, achieving a top-10 finish in 2 events, demonstrating competitive programming skills.

## Education

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### KIET Group of Institutions

Bachelor of Technology (B.Tech) in Computer Science

Relevant Coursework: Data Structures, Web Development, Algorithms

CGPA: 7.5/10

*Ghaziabad, Uttar Pradesh*

*Expected Graduation: 2026*