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:

– Developed 3 dynamic web applications, supporting real-time data processing and interactive user interfaces.

– Successfully completed 5+ assigned projects, improving coding efficiency by 15% through iterative problem-solving.

– Collaborated with mentors to refine full-stack development skills, implementing projects used by 200+ users.

Projects

– **ChatBotx:** Developed a real-time chat application using WebSocket, supporting 100+ concurrent users and integrating ChatGPT for AI-driven responses; improved user engagement by 25%.
GitHub: 🔗 https://github.com/tonmoy-cpu/Chat-APP

  – Implemented secure authentication using JWT tokens.

  – Reduced average response latency by 15%.

– **Fullstack E-commerce Website:** Built a MERN stack e-commerce platform with user authentication, a shopping cart, and a payment gateway, leading to a 30% increase in sales within 6 months.

  – Integrated Razorpay for secure payment transactions.

  – Decreased page load times by 25% with optimized React code.

– **Urban Planning Dashboard:** Created an urban planning tool using the MERN stack to analyze city infrastructure data, improving zoning accuracy by 15%.

  – Visualized data with dynamic charts using Chart.js.

  – Collaborated with urban planners to ensure actionable insights.

Achievements

– Secured 2nd position in a departmental mini-project exhibition, competing against 50+ participants.

– Selected for SIH 2023 (Software Section) from over 200 applicants, representing the institute nationally.

– Achieved a 98% satisfaction rate in freelance project deliverables based on client feedback.

Extracurricular Activities

– Active member of the college's coding club, organizing 3+ hackathons with participation from 200+ students.

– Volunteered for community tech workshops, teaching JavaScript basics to 50+ beginners.

– Represented the college in inter-university coding competitions, achieving a top-10 finish twice.

Education

KIET Group of Institutions *Ghaziabad, Uttar Pradesh*
Bachelor of Technology (B.Tech) in Computer Science
Relevant Coursework: Data Structures, Web Development, Algorithms
CGPA: 7.5/10 *Expected Graduation: 2026*