TONMOY MUKHERJEE

Contact Information

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Professional Summary

MERN Stack Developer with expertise in building scalable, high-performance web applications. Successfully executed over 5 projects, boosting user engagement by 25% and enhancing server response time by 20%. Specializes in transforming intricate requirements into efficient, intuitive solutions using JavaScript, React.js, Node.js, and MongoDB. Known for delivering clean, maintainable code and meeting tight deadlines.

Technical Skills

– **Languages:** JavaScript, TypeScript, C++, C

– **Front-end Technologies:** React.js, Next.js, Tailwind CSS, HTML, CSS

– **Back-end Technologies:** Node.js, Express.js, FastAPI, RESTful APIs

– **Databases:** MongoDB, SQLite, Data Modeling, Query Optimization

– **Version Control:** Git, GitHub

– **Development Tools:** Visual Studio Code, Webpack, npm, Postman

– **UI/UX Design:** Wireframing, Prototyping with Figma

Professional Experience

Microsoft Learn Student Ambassador (MLSA) Full Stack Web Developer   *August 2024 – October 2024*

Led the design and optimization of full-stack web applications, achieving significant performance and user engagement improvements. Key contributions:

– Spearheaded the development of 3 real-time web applications, supporting 100+ concurrent users and increasing engagement by 25%.

– Completed 5+ projects ahead of deadlines, improving team efficiency by 15%.

– Integrated real-time data processing, cutting latency by 15% and boosting user experience.

Projects

– **ChatBotx:** Created and optimized a real-time chat application with ChatGPT integration, supporting 100+ users. Key achievements:

  – Incorporated JWT authentication for secure user logins, enhancing security.

  – Minimized message response times by 15%, optimizing real-time interactions.

– **Fullstack E-commerce Website:** Led the development of a robust e-commerce platform, achieving a 30% increase in sales within 6 months.

  – Integrated the Razorpay payment gateway, ensuring secure transactions.

  – Improved page load speeds by 25%, leading to a 20% boost in user retention.

– **Urban Planning Dashboard:** Developed an interactive dashboard for visualizing city infrastructure data, enhancing decision-making processes.

  – Improved zoning accuracy by 15% with dynamic data visualizations using Chart.js.

  – Collaborated with urban planners to transform complex data into actionable insights.

Achievements

– Awarded 2nd place in the departmental mini-project exhibition, outperforming 50+ participants.

– Recognized for excellence in the SIH 2023 national hackathon, ranking among the top 5 from 200+ applicants.

– Successfully completed 10+ freelance projects with a 98% client satisfaction rate, leading to repeat business.

Extracurricular Activities

– Co-organized 3+ hackathons with over 200 participants, fostering a culture of collaboration and innovation.

– Mentored 50+ students in JavaScript, boosting technical literacy within the community.

– Ranked among the top 10 in various inter-university coding competitions, demonstrating strong problem-solving abilities.

Education

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