Dear Hiring Manager,

I am excited to apply for the Software Engineer position at your organization. I am currently pursuing a B.Tech in Computer Science and Engineering at IIIT Guwahati and have developed a strong foundation in software engineering through backend development, full-stack projects, and competitive programming.

During my tenure as a Software Development Project Assistant at IIIT Guwahati, I contributed to the development of CampusIQ, a centralized campus operations platform serving multiple stakeholders across the institute. I designed and implemented RESTful backend services using Java, Spring Boot, Hibernate, and MySQL, built secure role-based access control mechanisms, and optimized database performance through indexing and query restructuring. This experience strengthened my ability to build reliable, scalable systems while balancing maintainability, performance, and security.

Beyond academic projects, I built InterviewIQ, an AI-powered mock interview platform that generates personalized interview questions using LLM-based resume analysis and provides automated evaluation and feedback. I also developed a real-time Driver Drowsiness Detection System achieving 94% accuracy while maintaining low-latency inference suitable for real-world deployment. These projects have allowed me to work across the full software development lifecycle, from system design and backend architecture to deployment and optimization.

I am particularly passionate about problem solving and algorithmic thinking. As a Codeforces Specialist (1548), CodeChef 4-Star Coder (1830), and an active competitive programmer with 400+ solved DSA problems, I have consistently strengthened my ability to analyze complex problems, design efficient solutions, and write high-quality code under constraints. These experiences have developed the engineering rigor required to contribute effectively to large-scale software systems.

What attracts me most to your organization is the opportunity to work alongside exceptional engineers solving impactful problems at scale. I am eager to contribute my technical skills, learn from world-class teams, and help build products that positively affect millions of users.

Thank you for your time and consideration. I would welcome the opportunity to discuss how my background, technical skills, and passion for software engineering can contribute to your team.

Sincerely,

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