

August 1, 2024

Sentry

Dear Hiring Manager,

I hope this message finds you well. I'm excited to apply for the Software Engineering Intern position at Sentry. As a current junior at North Carolina State University studying Computer Science, with a minor in Mathematics, I believe my background and passion for technology align well with the goals of your team.

During my studies, I've built a strong foundation in computer science, focusing on data structures, algorithms, and software development. I've worked with several programming languages, including Python, Java, C++, and JavaScript. My academic journey has been marked by a GPA of 3.90 and a consistent spot on the Dean's List.

One of my standout projects is LetsStudyTogether, a web app that helps users manage their study schedules and tasks. I built this using HTML, CSS, JavaScript, jQuery, Node.js, and PostgreSQL. The app is hosted on AWS, where I set up an EC2 instance as a remote server. To ensure it runs smoothly, I implemented a daemon process and used Route 53 for DNS management. This setup led to a 25% increase in user productivity and a 15% boost in satisfaction, with over 100 active users.

Additionally, I've been involved in research on self-driving car technology using machine learning. My work included improving GPS accuracy and implementing lane detection algorithms with OpenCV and Python. I also developed an autonomous soccer-playing rover using CNNs with TensorFlow and Keras, which honed my engineering and problem-solving skills.

Sentry's mission to help developers write better software faster really resonates with me. The idea of building tools that enable companies like Disney, Microsoft, and Atlassian to spend less time fixing bugs and more time innovating is inspiring. I'm especially excited about the opportunity to contribute to your open-source projects and to learn from world-class engineers.

I'm eager to bring my skills, creativity, and enthusiasm for software development to Sentry. Thank you for considering my application. I look forward to discussing how I can contribute to your team. Please feel free to contact me at 720-397-7838 or via email at pthapa4@ncsu.edu to schedule an interview.

Best regards,

Pratik Thapa

