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January 20, 2025

Dear Hiring Manager,

I am writing to express my enthusiasm for this opportunity. As an undergraduate student at Rensselaer Polytechnic Institute majoring in Computer Science, I have built a strong foundation in AI research, algorithms, and database design.

In my academic career, I have engaged in innovative projects that have honed my technical skills in Python, C/C++, and SQL, while deepening my experience with frameworks such as PyTorch, Pandas, and Django. For instance, in my recent research project, I integrated diffusion models with transformers to enhance the reasoning capabilities of large language models—resulting in improved model performance and efficiency for certain benchmarks. Additionally, my work on developing a website to rank emerging research papers allowed me to refine my understanding of database design.

I am committed to innovating on existing solutions, and hope to use what I've learned to contribute to the team while learning from the diverse expertise within the organization.

Thank you for considering my application. I look forward to the opportunity to discuss how my background and skills can contribute to your team's success.

Sincerely,  
Yi Hung Lim