

Hao Wang  
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Hiring Manager  
[Company Name]  
[City, State]

Dear Hiring Manager,

I am excited to apply for a Software Engineering Intern position, where I can contribute my passion for artificial intelligence, machine learning, and innovative problem-solving. As a Computer Science senior at the University of Pittsburgh, with hands-on experience in Java, Python, and data processing, I am eager to leverage my technical skills and adaptability to support your team's goals and help drive the future of technology.

During my internship at Piesat, I processed complex data using Java, optimizing storage speed by rewriting hash functions to avoid collisions—a task that required perseverance and attention to detail. Additionally, I fine-tuned data loading into MySQL and developed monitoring tools to streamline workflows. These experiences honed my ability to tackle unfamiliar challenges, such as learning new frameworks like Spring Boot independently to deliver results. My academic projects further demonstrate my technical aptitude, including implementing a DLB trie for autocomplete features and designing a 2D game in MIPS assembly language.

I am particularly excited about the opportunity to work with cutting-edge technologies, such as transformer architectures and deployment of large-scale models. My coursework, combined with my proactive approach to self-learning, aligns well with your focus on frameworks like PyTorch and optimization techniques such as quantization. I am eager to contribute to a culture of innovation and growth, and to collaborate with teams focused on developing impactful, AI-driven solutions.

Thank you for your time and consideration. I would welcome the chance to discuss how my skills and enthusiasm can contribute to your success. I look forward to hearing from you.

Sincerely,  
Hao Wang