Hao Wang  
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April 14, 2025

Hiring Manager  
Cadence  
Pittsburgh, PA

Dear Hiring Manager,

I am excited to apply for the Software Engineering Intern position at Cadence, where I can contribute my passion for artificial intelligence, machine learning, and innovative problem-solving to the Virtuoso platform. 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 Cadence’s mission of shaping the future of smart technology.

During my internship at Piesat, I processed complex weather 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 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.

What excites me most about Cadence is the opportunity to work with cutting-edge technologies like transformer architectures and LLM deployment. My coursework in computer science combined with my proactive approach to learning, aligns well with the internship’s focus on frameworks like PyTorch and optimization techniques such as quantization. I am particularly drawn to Cadence’s culture of innovation, where I can grow alongside leaders in AI-driven design.

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

Sincerely,  
Hao Wang