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Dear Hiring Manager at FreddieMac,

I am thrilled to apply for the Software Engineering & Data Internship at FreddieMac. My academic background in Data Science, reinforced by rigorous research and practical application, has prepared me to contribute effectively to your mission of building a better housing finance system.

During my undergraduate at NYU, I co-authored a paper on few-shot segmentation, where we enhanced machine learning models' performance through innovative data augmentation strategies. This research allowed me to delve deeply into data inconsistency challenges and develop solutions that substantially improved accuracy in low-data regimes—a testament to my problem-solving skills and adaptability.

Additionally, I co-authored a published paper on creating a multimodal dataset to detect student engagement in online learning settings. This project honed my skills in processing complex datasets and developing a CNN-RNN hybrid model, aligning closely with the data stack development and analysis work at Freddie Mac.

I am eager to bring my strong background in machine learning, data processing, and software development to Freddie Mac, where I can contribute to impactful projects and help drive innovation in housing finance.

Sincerely,

Xiaochen (Nigel) Lu