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Dear Hiring Manager,

I am writing to express my interest in the Machine Learning Engineer position at ZipRecruiter, as advertised. With my extensive experience in software engineering, machine learning and computer vision research, I am thrilled about the opportunity to contribute to your team's innovative work in AI-driven technology.

During my undergraduate at New York University, I specialized in semantic segmentation in few-shot learning scenarios. My role as a Research Assistant involved developing an instance-aware data augmentation strategy to enhance image diversity and reduce distribution inconsistency between images. This experience honed my skills in building scalable codebases in PyTorch, data preprocessing, feature engineering, and model optimization, which are crucial for the responsibilities outlined in your job description.

Additionally, my work at SMART-LAB in NYU Abu Dhabi, where I co-authored a paper published in the Nuclear Physics B journal, involved creating a CNN-RNN hybrid model for engagement detection in online learning. This project underscored my ability to handle complex data sets and develop innovative machine learning solutions, skills that I believe would be beneficial for the challenges at ZipRecruiter.

In my professional experience as a Full-stack Engineer at Kaizntree Co., I co-founded a platform for small businesses, showcasing my capabilities in software development, problem-solving, and adapting to rapidly changing environments. My internship at eBay Inc. further provided me with hands-on experience in developing efficient data-driven solutions, such as the Average-Time-to-Business Dashboard, which improved operational efficiency significantly.

Your mission to connect people to their next great opportunity resonates deeply with me. I am enthusiastic about the prospect of contributing to ZipRecruiter's vision of using advanced machine learning models to revolutionize the job market. I am particularly intrigued by the challenge of developing systems to predict salaries for new job postings, as it aligns with my passion for creating impactful, data-driven solutions.

Thank you for considering my application. I am looking forward to the opportunity to discuss how my background, skills, and enthusiasm make me a perfect fit for your team.

Sincerely,
Xiaochen (Nigel) Lu