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Marshall Wace

To Whom it May Concern,

I am writing to express my enthusiastic interest in the Technology Intern position at Marshall Wace. As a third-year student majoring in Business Computing & Data Analytics at Hong Kong Baptist University, I have developed a robust foundation in both software development and finance, and I am eager to leverage these skills within Marshall Wace's dynamic environment. Your commitment to innovation and leadership in the asset management industry is particularly inspiring, and I am drawn to your dedication to using technology to drive financial solutions. The opportunity to work with your extensive resources and industry expertise aligns perfectly with my passion.

My recent experience as a Software Engineer Intern at Wizpresso has been pivotal in enhancing my understanding of software engineering and its application in financial technology. Over the summer, I was responsible for refactoring the user management portal, where I developed 15 new features and optimized 10 existing ones to improve portal speed and user engagement. This role underscored the critical importance of delivering fast, reliable, and intuitive software in financial services, where every millisecond can impact trading and user satisfaction. Additionally, I refactored the user management system to enhance efficiency and scalability, skills that are crucial for handling large datasets and complex transactions in a tech-driven financial institution like Marshall Wace. Working directly with sensitive financial data from various companies, I routed APIs to dynamically display data to applications addressing stringent requirements around security, reliability and responsiveness within regulated financial markets, enabling our data science team to manage information accurately.

At Admazes, I had the opportunity to contribute significantly as a Software Engineer Intern. During my tenure, I worked on developing and enhancing a Local Large Language Model using LangChain. This project allowed me to improve the model's response accuracy by 25% through better semantic understanding and advanced search capabilities. Additionally, I analyzed datasets using BigQuery, optimizing data retrieval efficiency by 30%. By crafting and executing over 100 complex SQL queries, I was able to generate actionable insights that led to a 20% boost in operational efficiency. This experience reinforced the importance of precise and efficient data processing—skills that are vital in the financial world. The Technology Intern position aligns perfectly with my aspiration to merge technology with finance. The prospect of collaborating with passionate individuals from diverse backgrounds, including fellow tech finance enthusiasts and experts from Marshall Wace, is incredibly motivating. I am excited about the chance to exchange ideas and skills and contribute to projects that can create a lasting positive impact. I am confident that my technical skills, combined with my enthusiasm for innovation and teamwork, make me a strong candidate for the Technology Intern position.

Thank you for considering my application. I look forward to the possibility of contributing to Marshall Wace and making a meaningful difference through technology.

Best regards,



Juan Felix Pangestu