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J.P. Morgan

To Whom it May Concern,

I am writing to express my enthusiastic interest in participating in the Code for Good 2024 Hackathon hosted by J.P. Morgan this upcoming Fall. 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 for social good. J.P. Morgan's commitment to innovation and leadership in the financial technology sector is particularly inspiring to me, and I am drawn to the firm's dedication to using technology to make a meaningful impact. The opportunity to work with J.P. Morgan's extensive resources and industry expertise in developing solutions that intersect advanced technology, finance, and social impact is precisely where my passion lies.

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 J.P. Morgan. 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 Code for Good Hackathon aligns perfectly with my aspiration to use technology for social change. The prospect of collaborating with passionate individuals from diverse backgrounds, including fellow tech enthusiasts and experts from J.P. Morgan, 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 Code for Good Hackathon and J.P. Morgan's summer analyst position.

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

Best regards,



Juan Felix Pangestu